

Fig. 1A

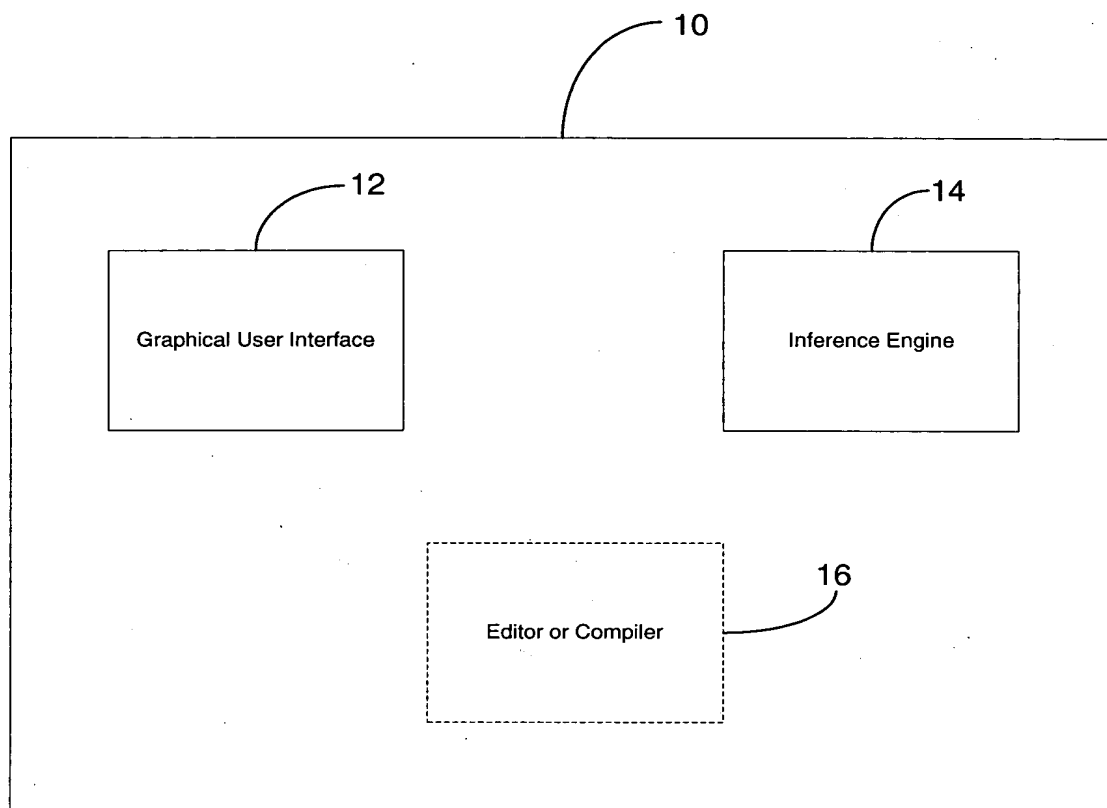
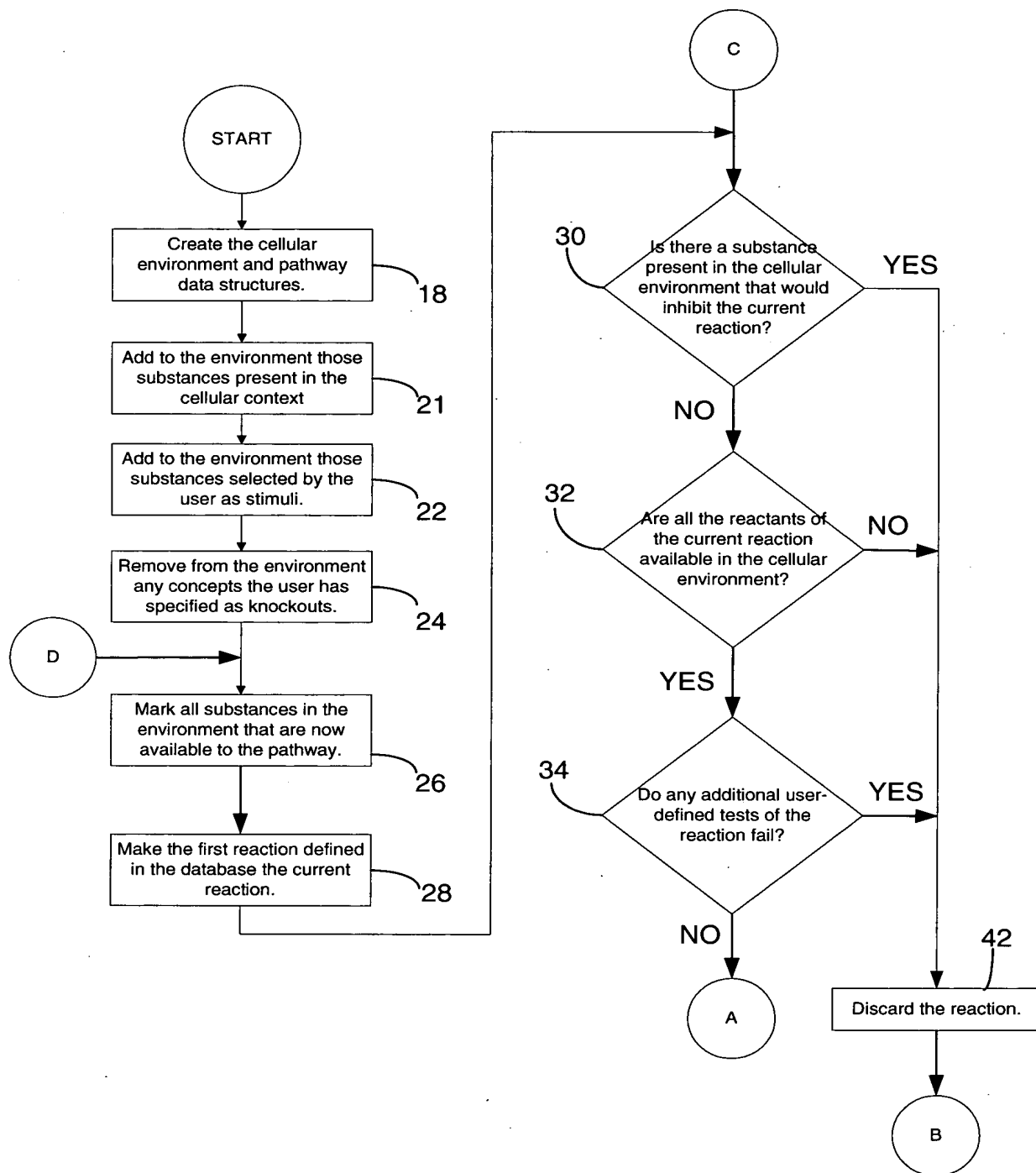


Fig. 1B

Fig. 2A



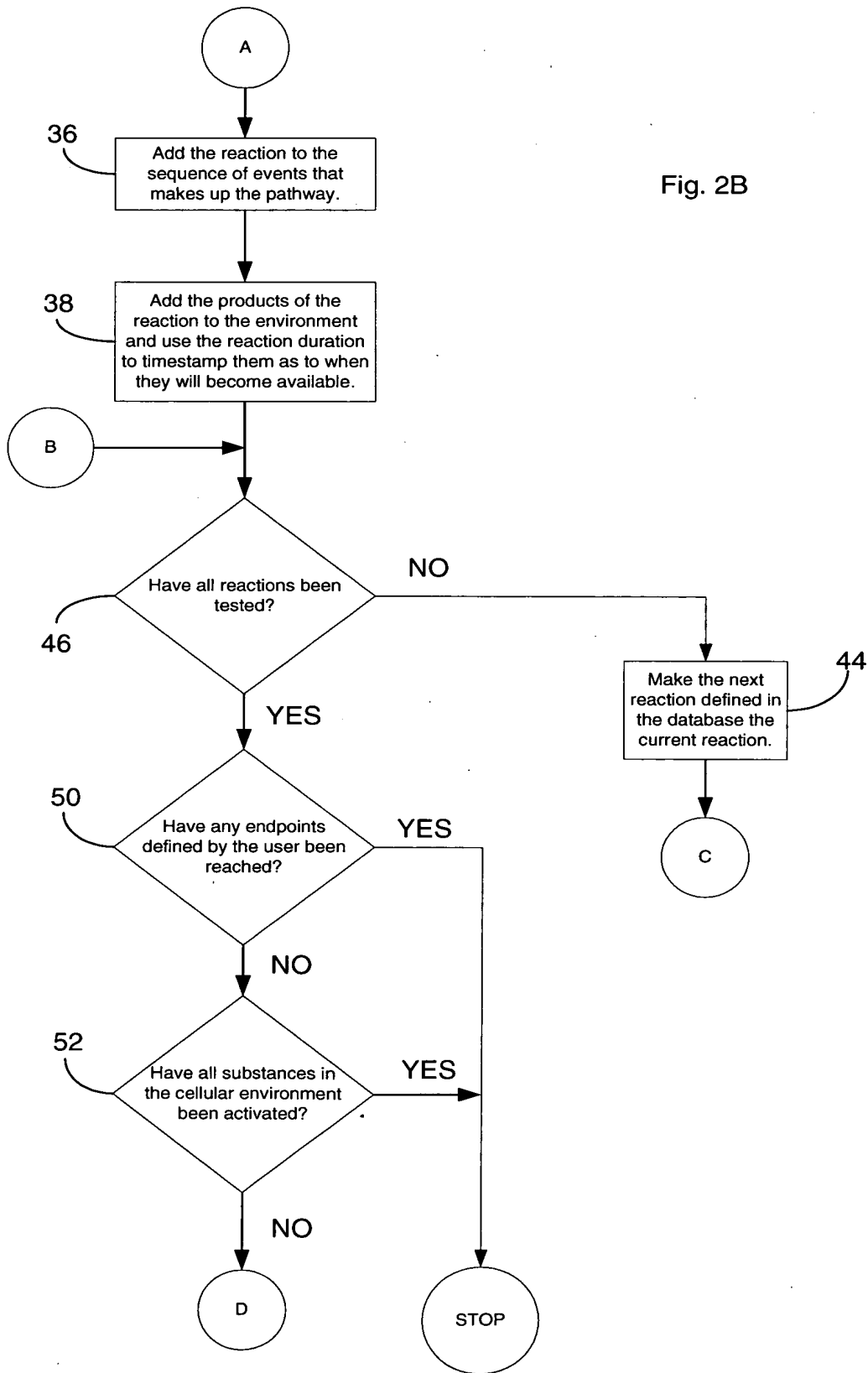


Fig. 2B

Fig. 2C

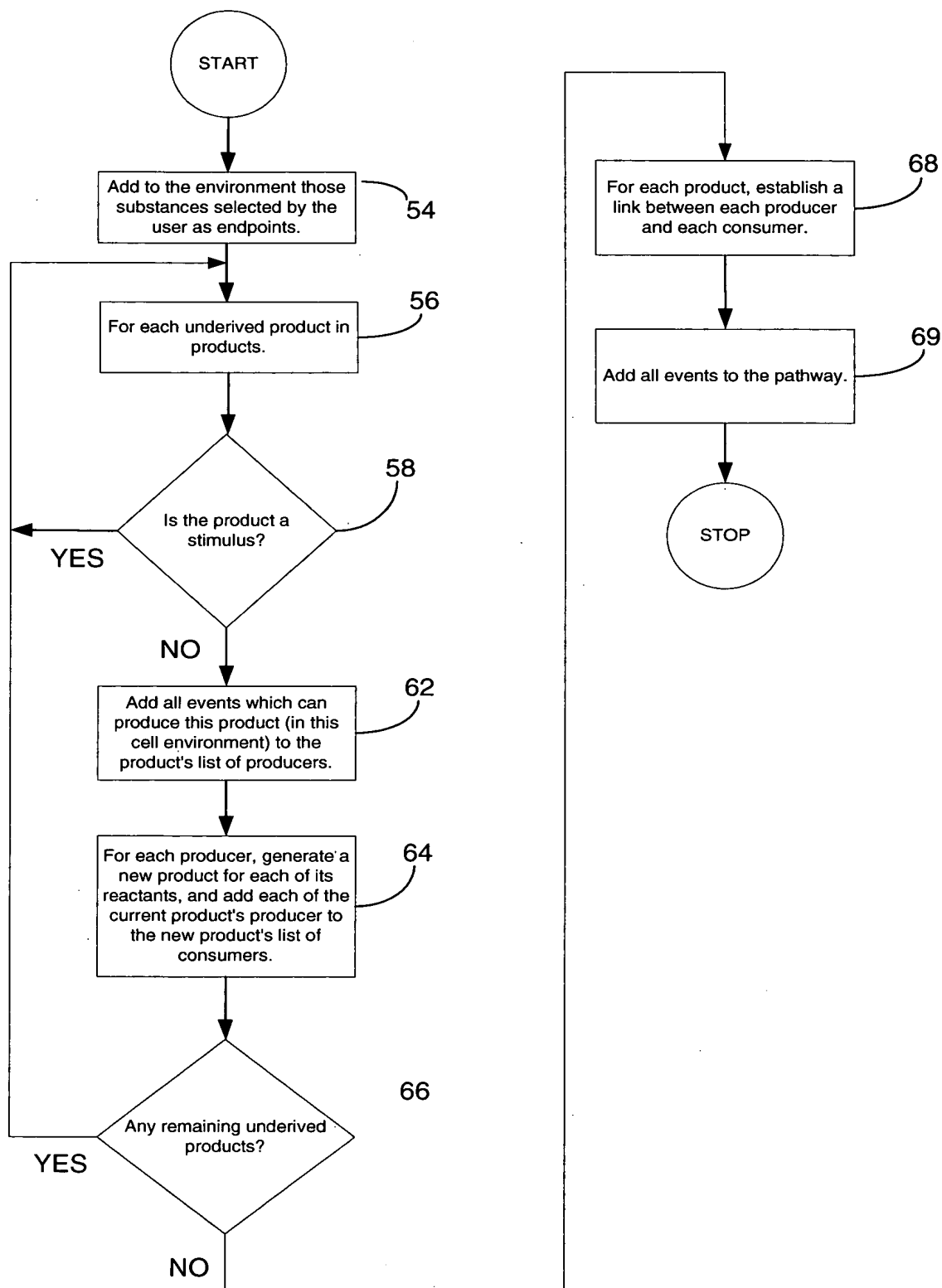


FIGURE 3

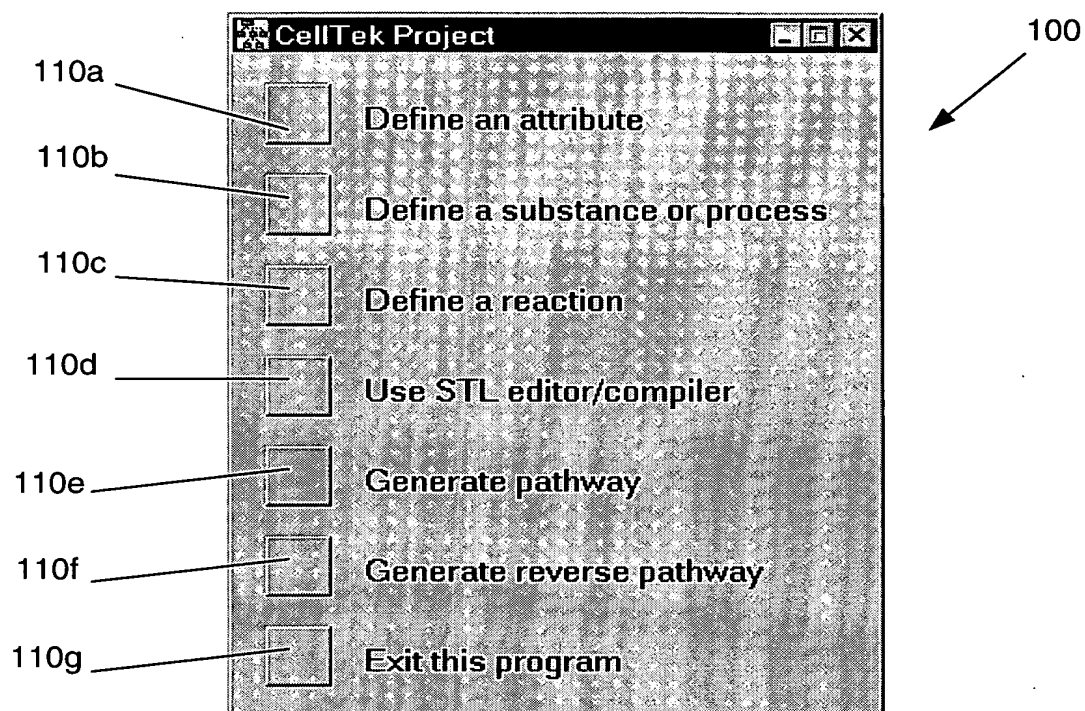


FIGURE 4A

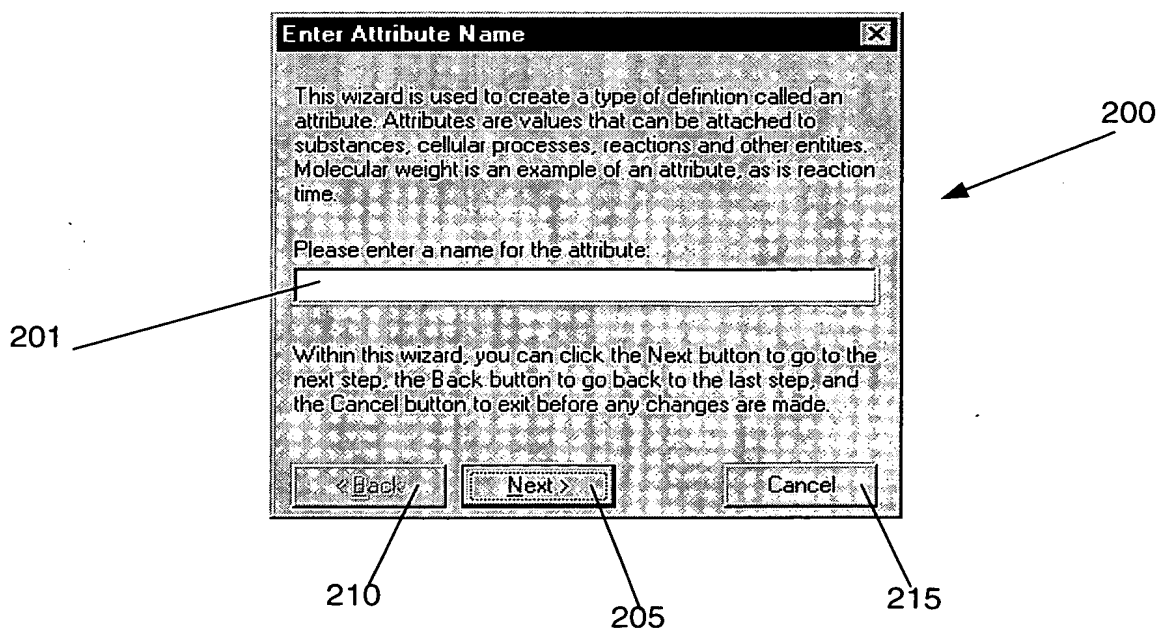


FIGURE 4B

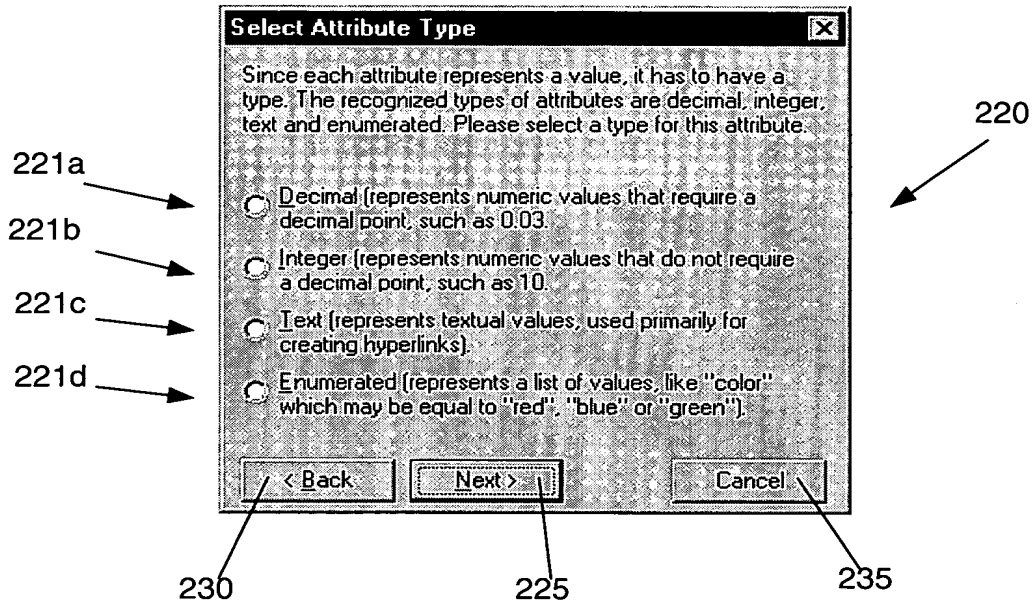


FIGURE 4C

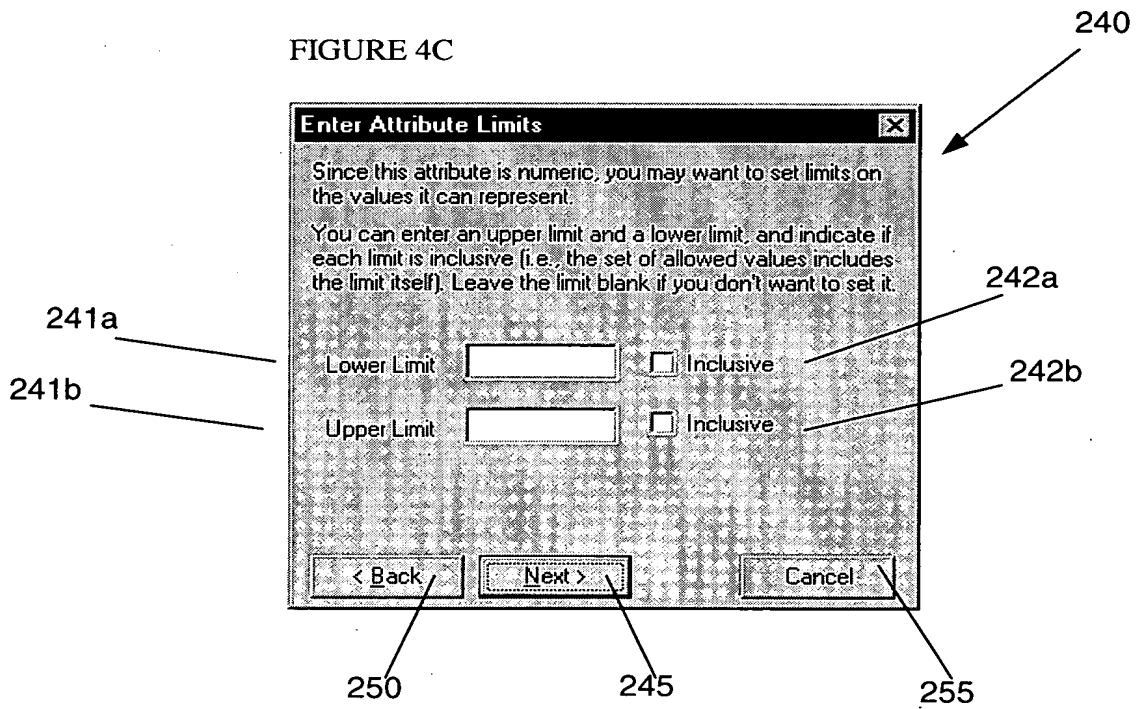


FIGURE 4D

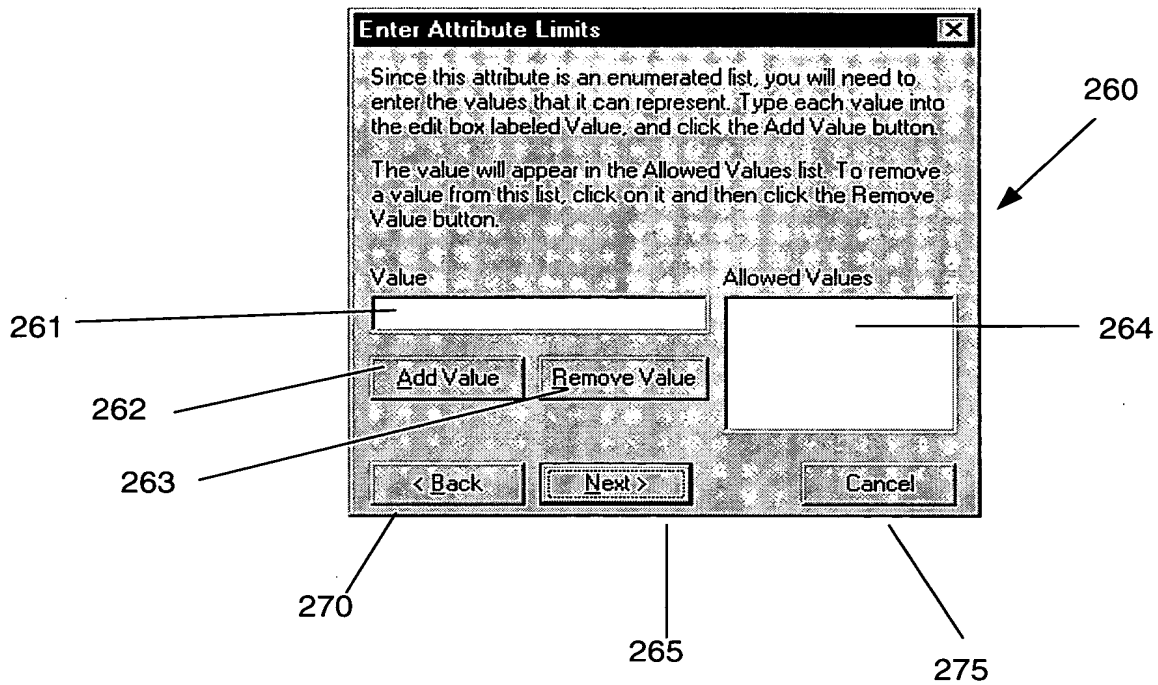


FIGURE 4E

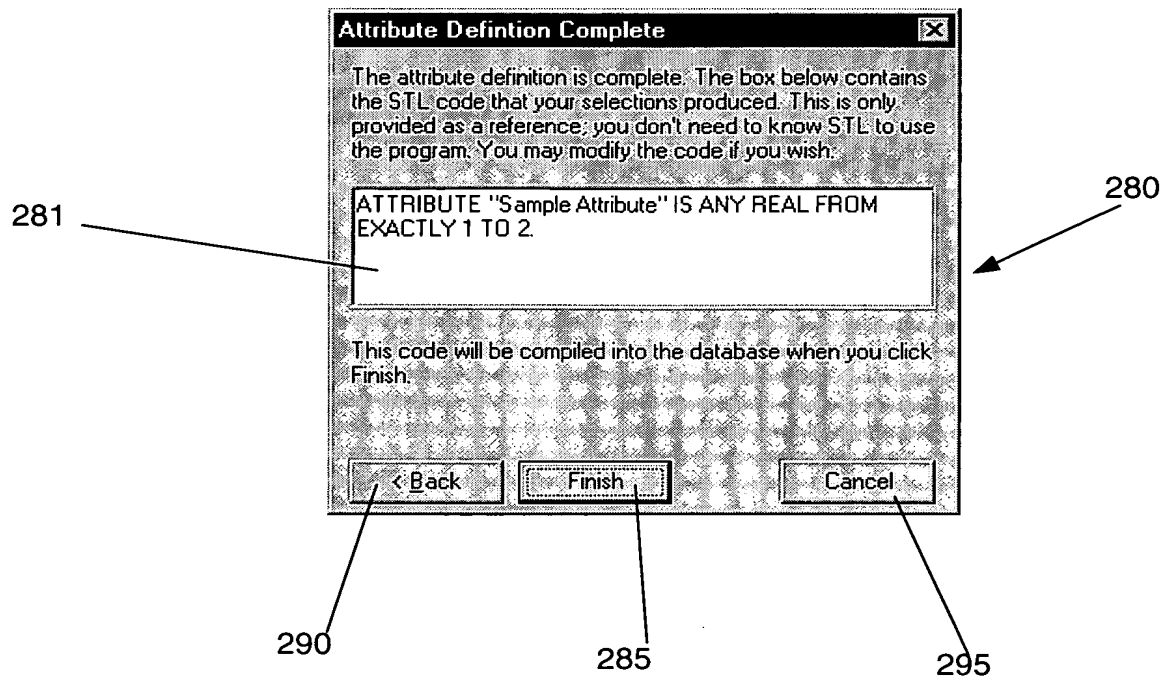


FIGURE 5A

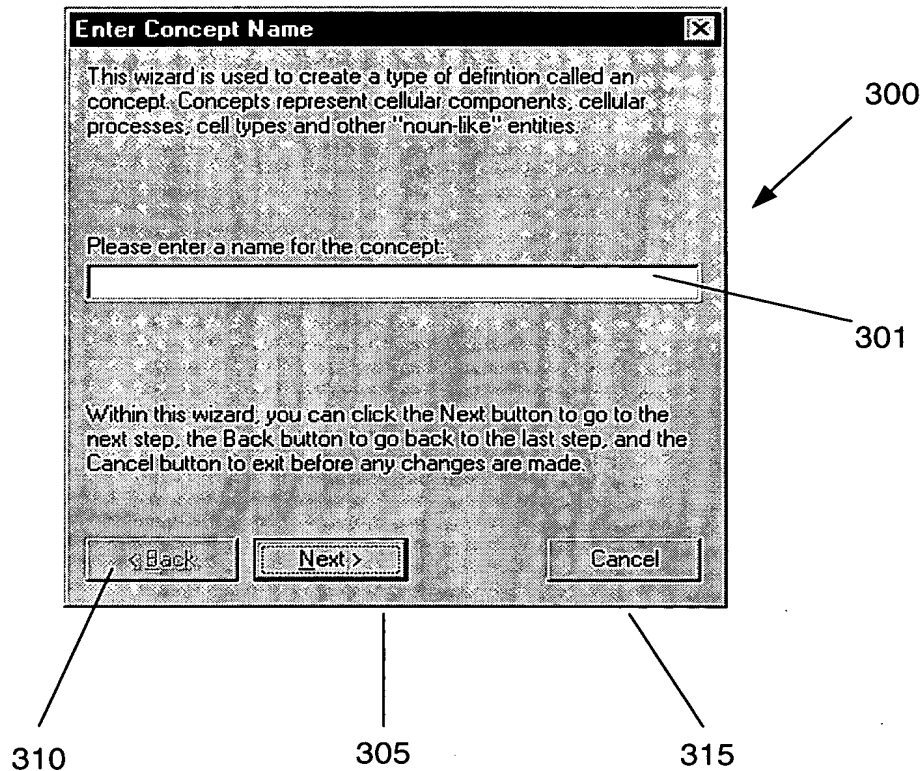


FIGURE 5B

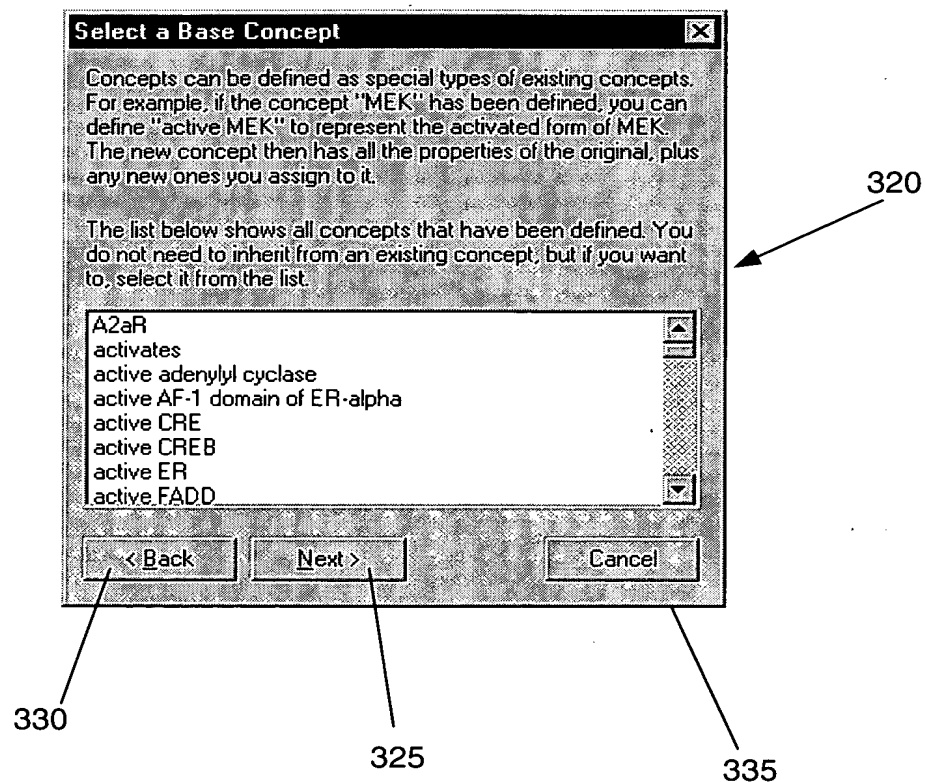


FIGURE 5C

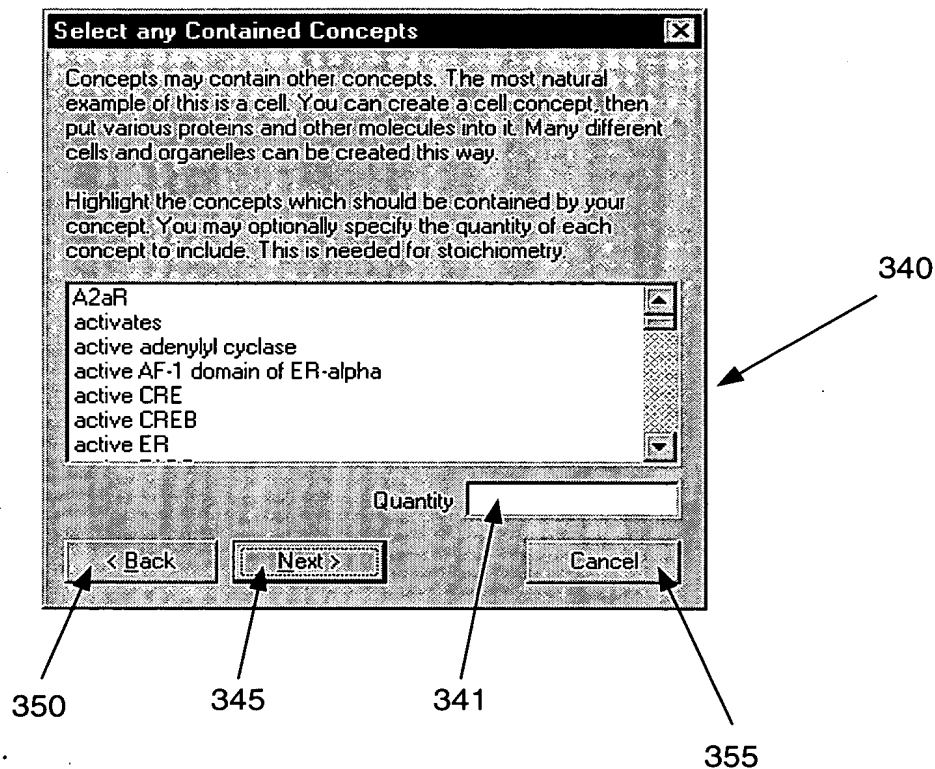


FIGURE 5D

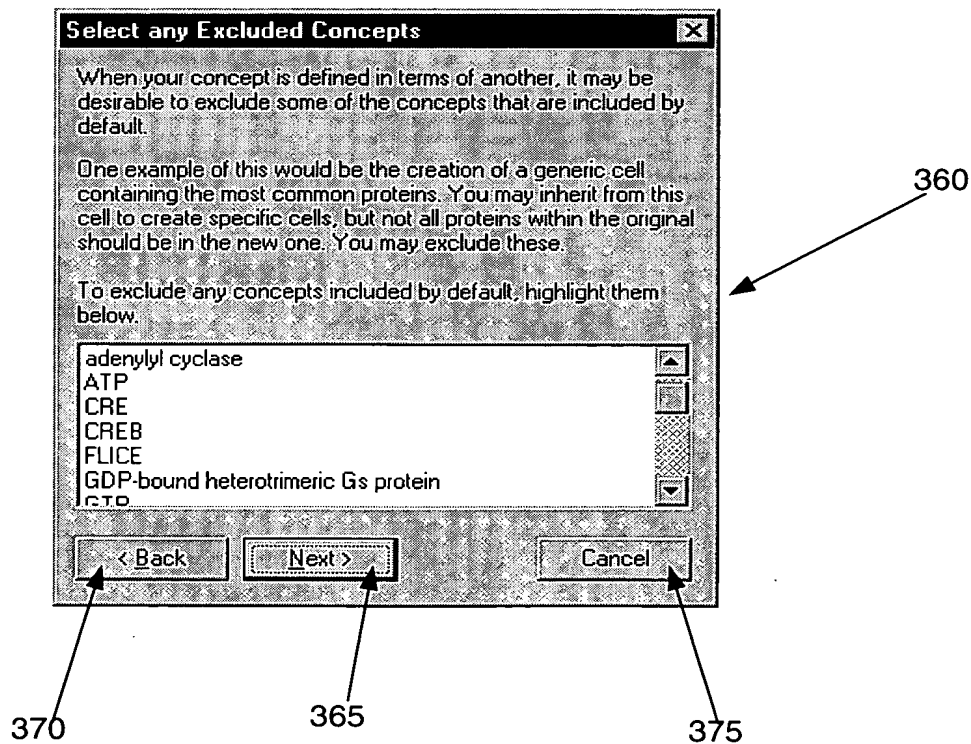


FIGURE 5E

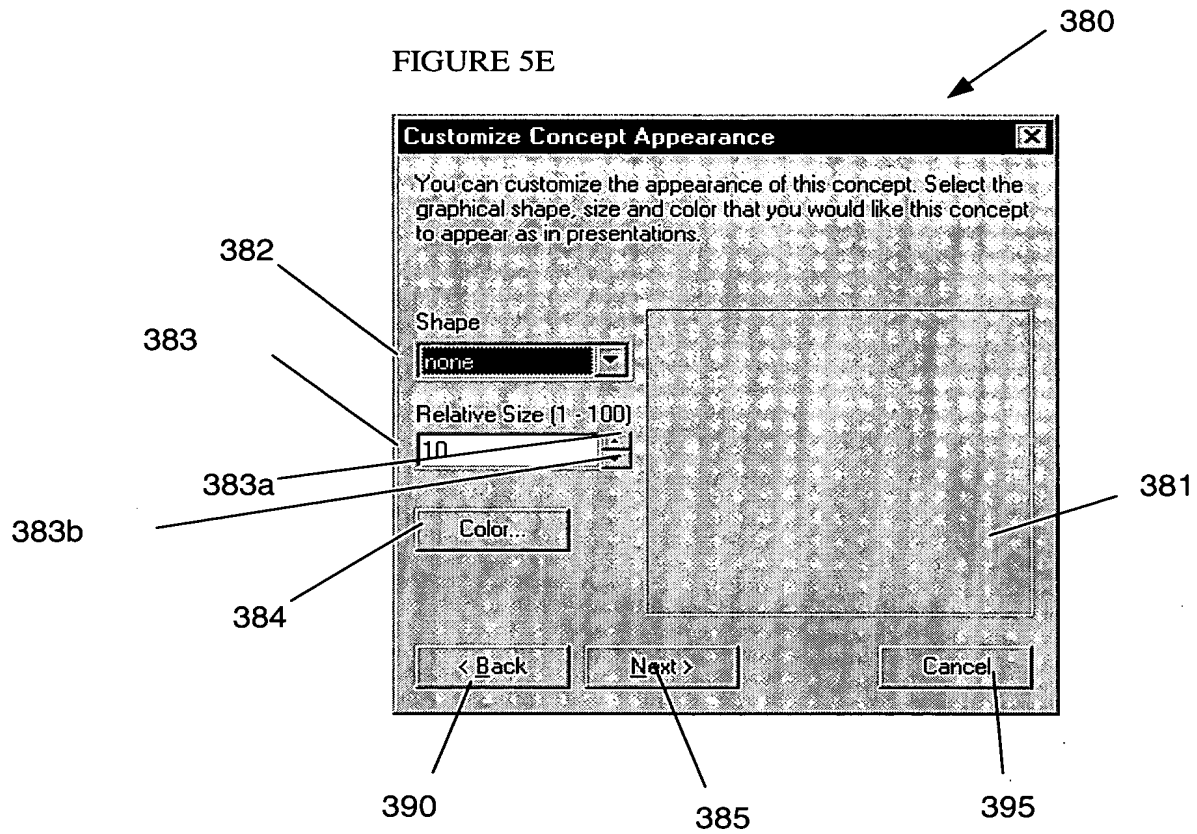


FIGURE 5F

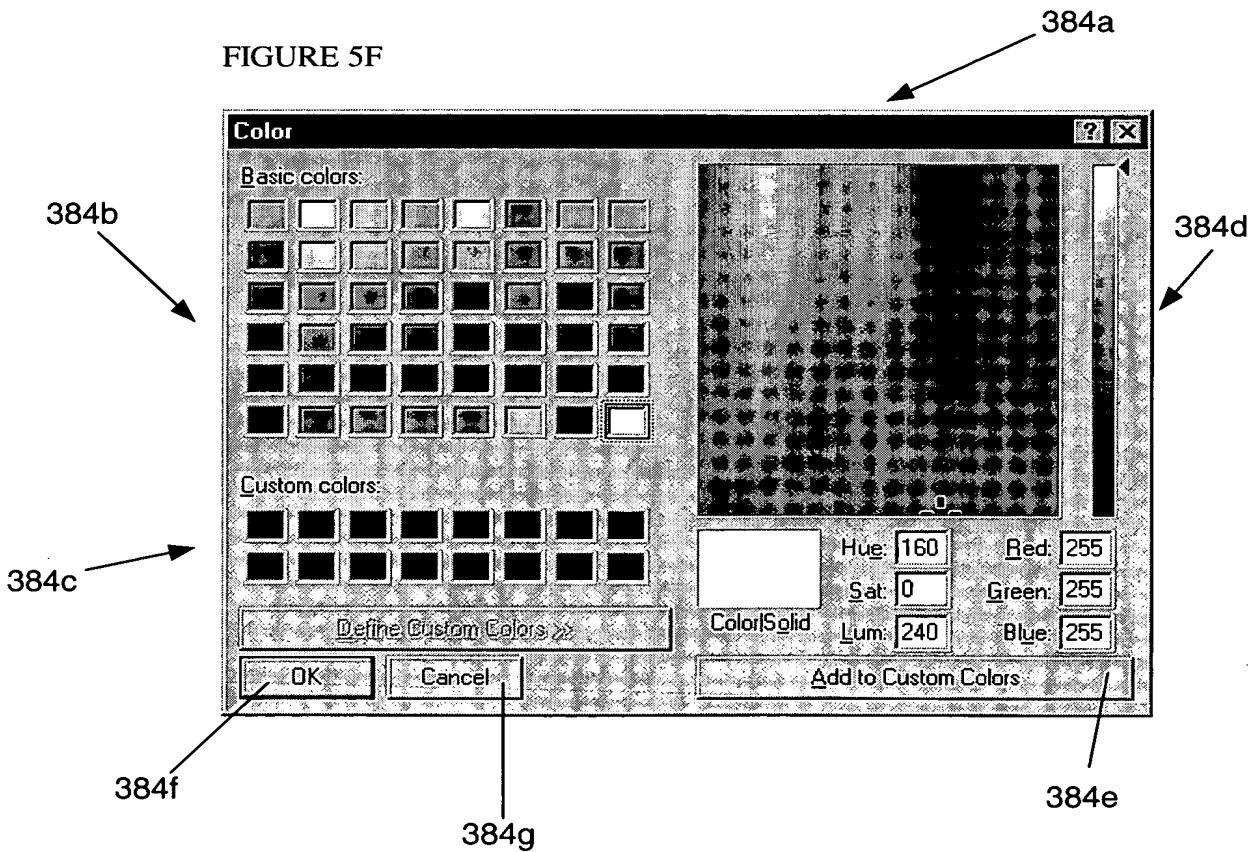


FIGURE 5G

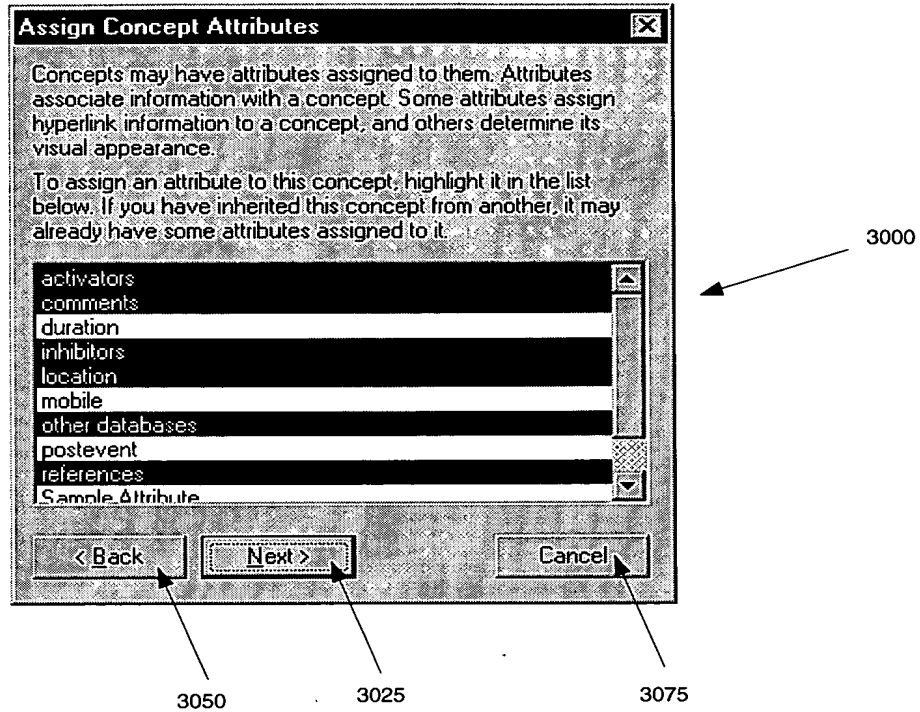


FIGURE 5H

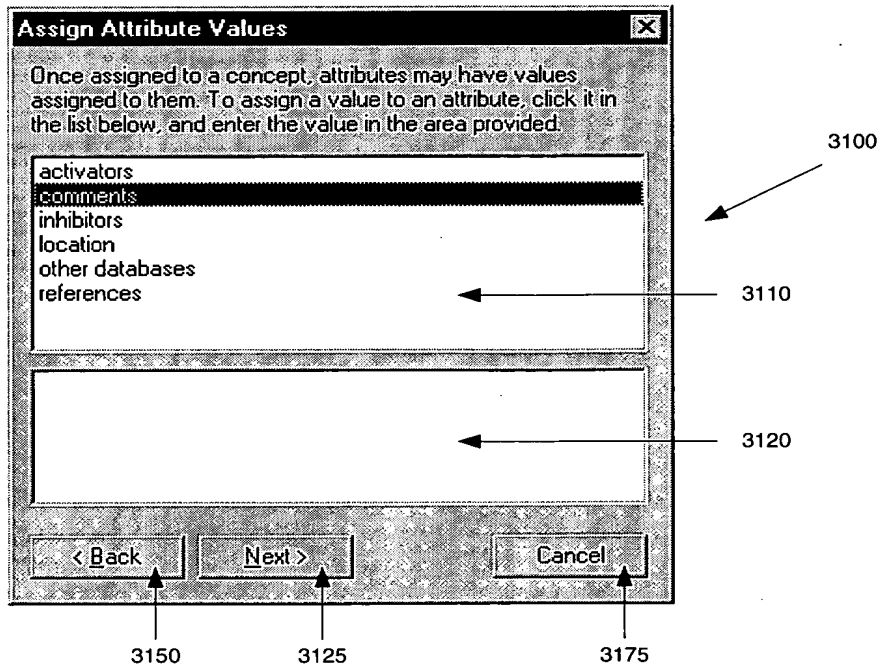


FIGURE 5I

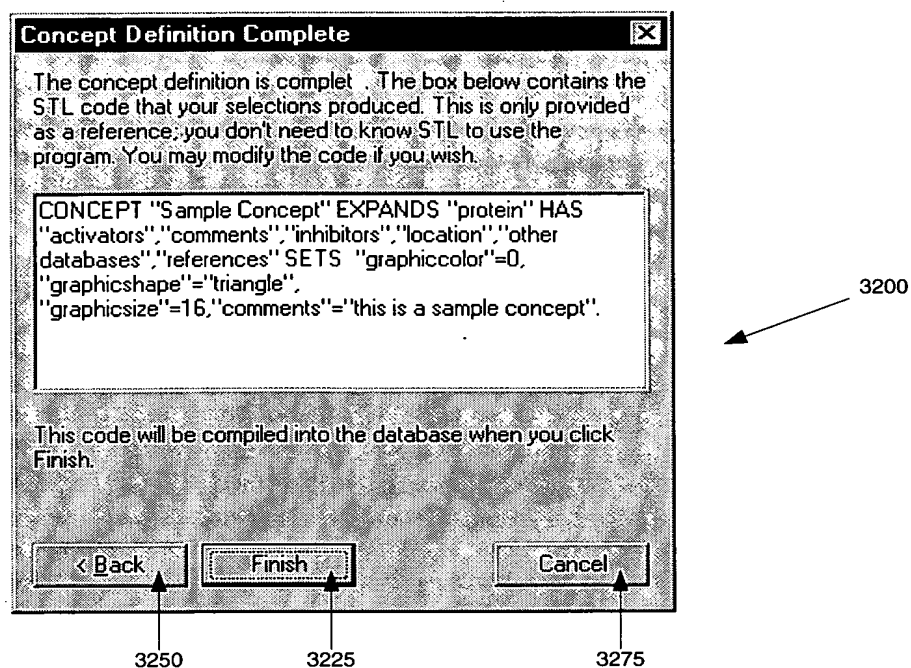


FIGURE 6A

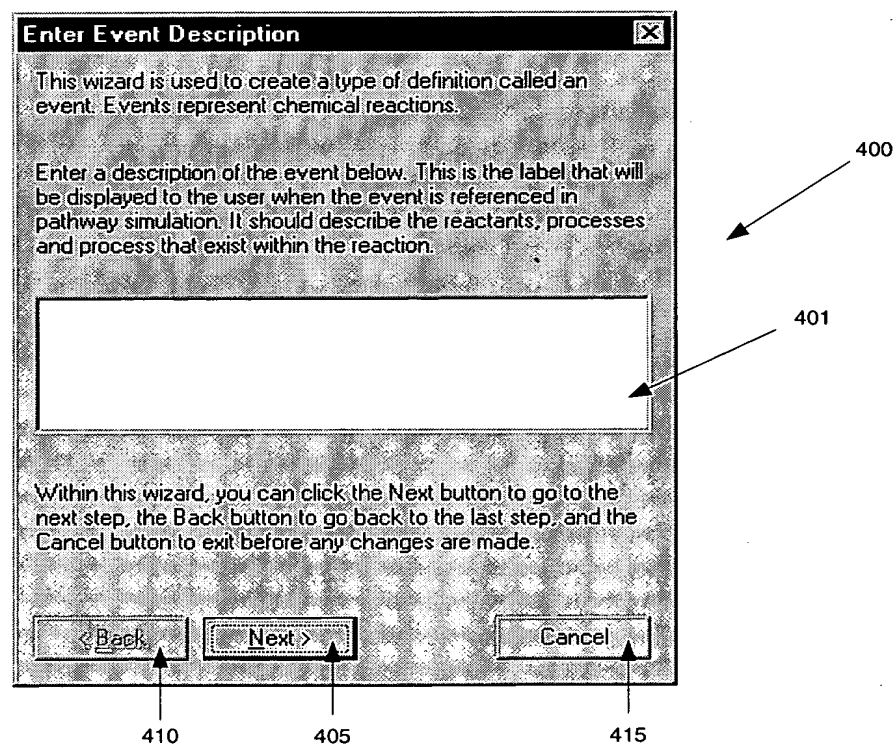


FIGURE 6B

Select Reactants

A reaction requires reactants. These will be known concepts that are required to be present for the reaction to take place.

Highlight the concepts that make up the reactants. You may optionally specify the quantity of each concept to include. This is needed for stoichiometry.

A2aR
 activates
 active adenylyl cyclase
 active AF-1 domain of ER-alpha
 active CRE
 active CREB
 active ER
 active FADD
 active FLICE
 active Grb-2

Quantity

< Back Next > Cancel

420 421 422 430 425 435

FIGURE 6C

Select Products

A reaction also requires products. These will be known concepts that are produced when the reaction takes place.

Highlight the concepts that make up the products. You may optionally specify the quantity of each concept to include. This is needed for stoichiometry.

A2aR
 activates
 active adenylyl cyclase
 active AF-1 domain of ER-alpha
 active CRE
 active CREB
 active ER
 active FADD
 active FLICE
 active Grb-2

Quantity

< Back Next > Cancel

440 441 442 450 445 455

FIGURE 6D

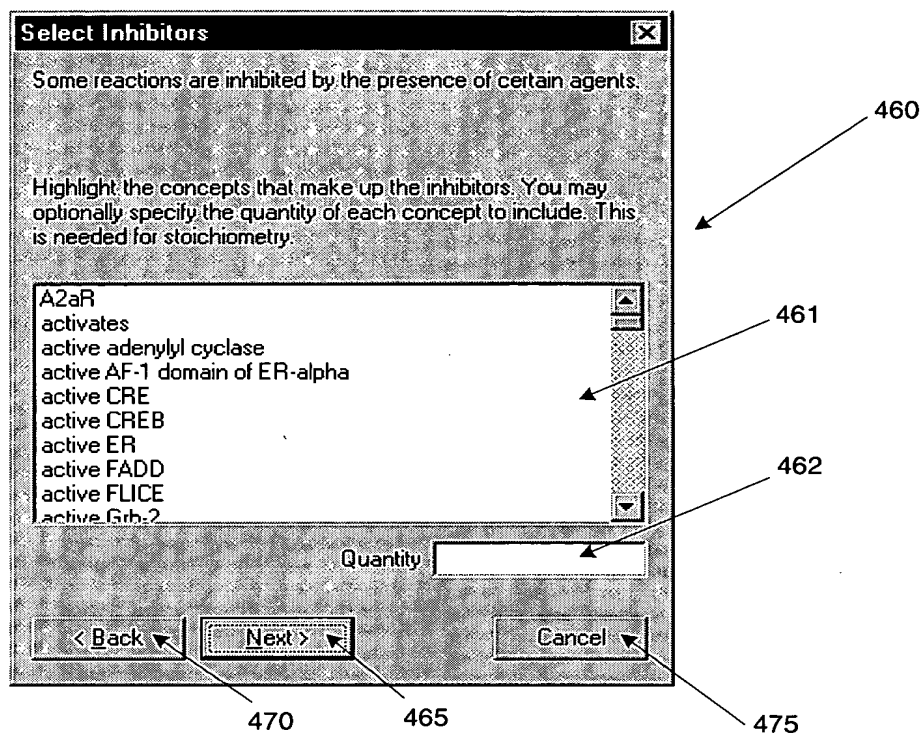


FIGURE 6E

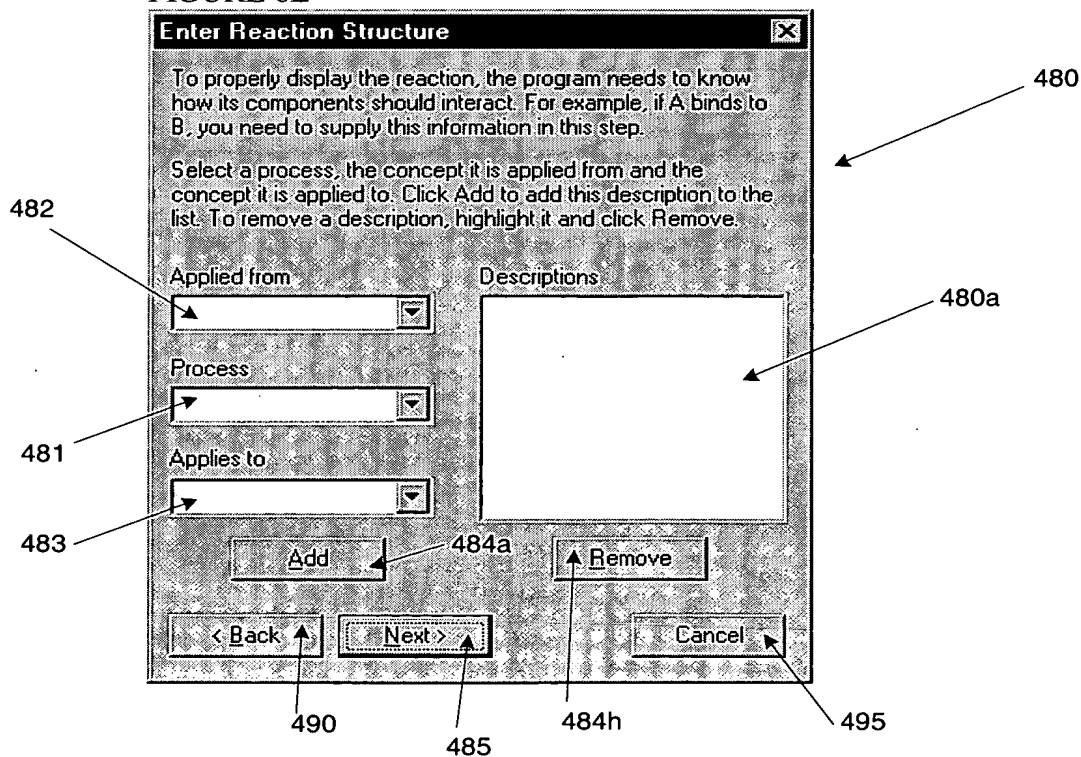


FIGURE 6F

Enter Event Attributes

Events have certain attributes assigned to them that associate information with them. In the space below, enter the values of any relevant attributes for this event.

Event Duration seconds

To provide the best dynamic representation of a reaction, information about the mobility and post-reaction presence of the reactants is needed. Select each reactant in the list below, and check the relevant boxes.

A2aR
adenosine

☒ Reactant will move during the reaction towards other reactants

☒ Reactant is unchanged by the reaction and should be visible post-reaction

< Back Next > Cancel

4010 4020 4030 4040 4050 4060 4070 4000

FIGURE 6G

Enter Event Contexts

Some reactions may be present or absent for certain cell types. Highlight the cell types for which this reaction is present. If you do not select any, it will be present for all cell types.

breast cancer cell
generic cell
generic cell with FADD
HEK-293 cell

Highlight the cell types for which this reaction is absent. If you do not select any, it will be present for all cell types.

breast cancer cell
generic cell
generic cell with FADD
HEK-293 cell

< Back Next > Cancel

4100 4110 4120 4130 4140 4150

FIGURE 6H

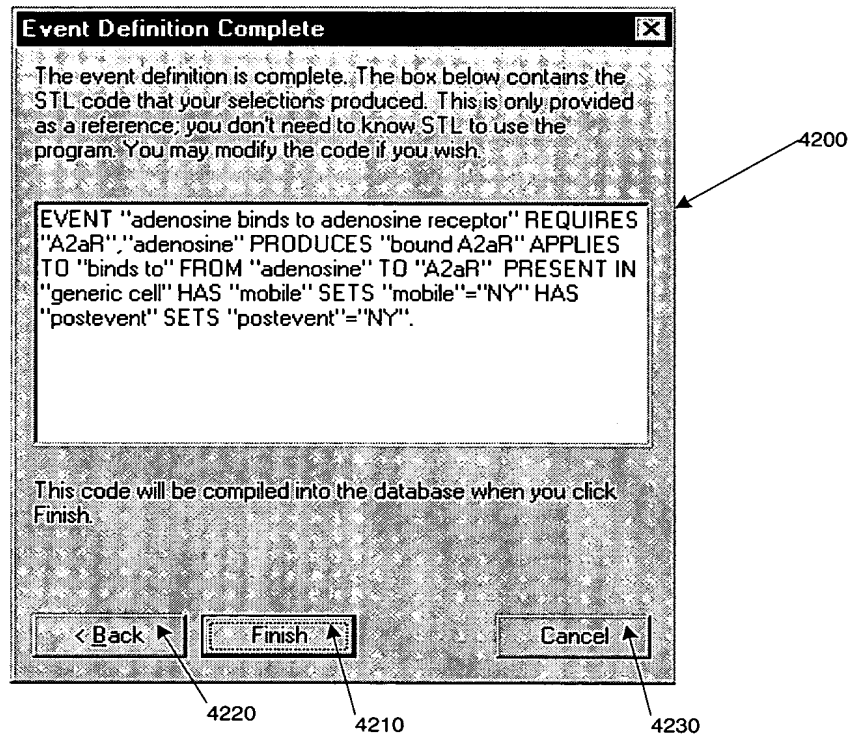


FIGURE 7

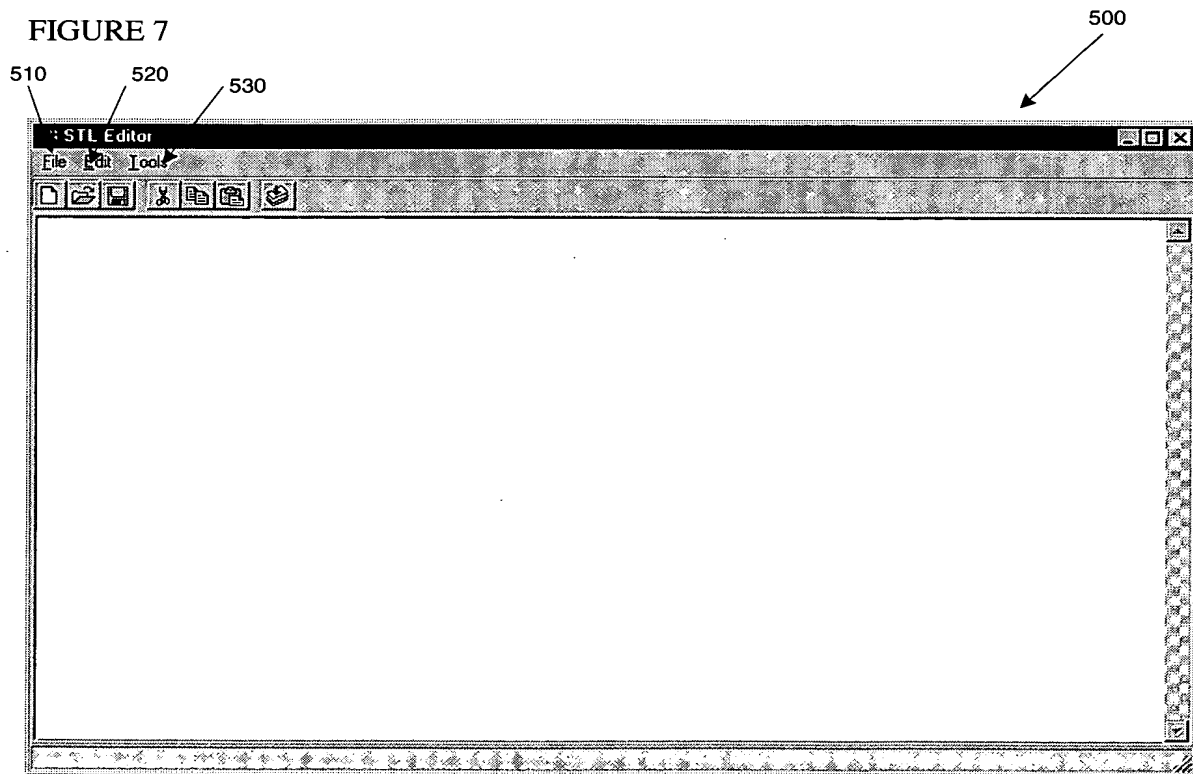


FIGURE 8A

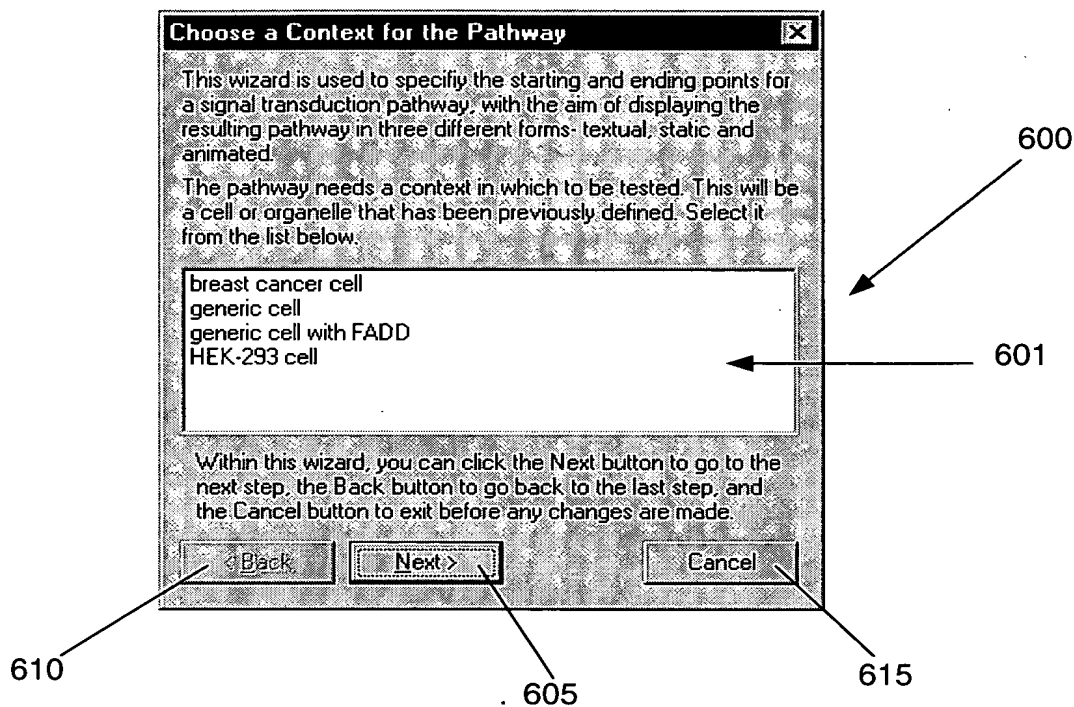


FIGURE 8B

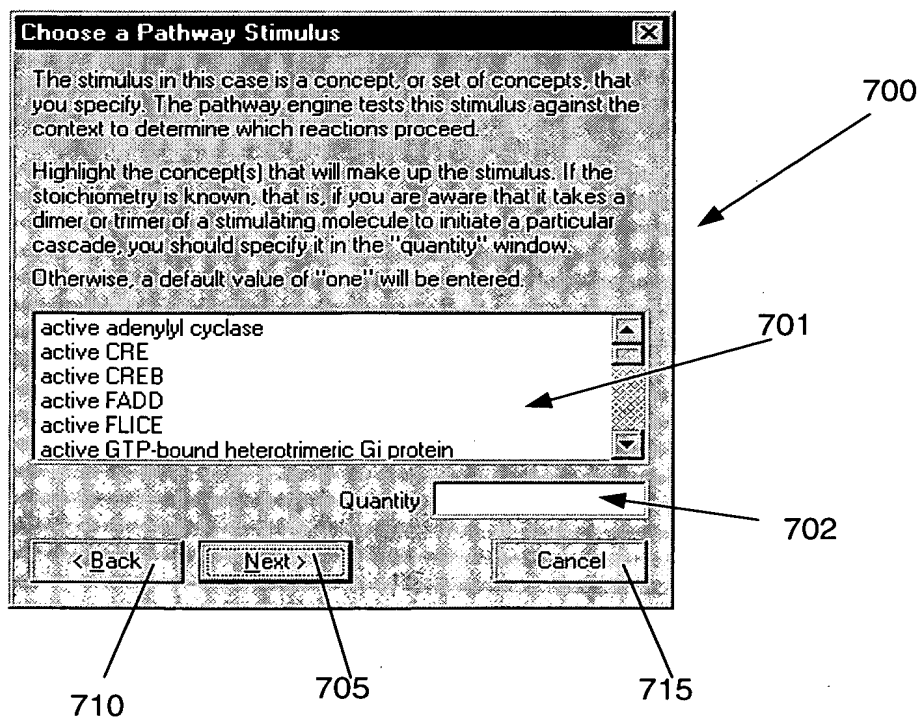


FIGURE 8C

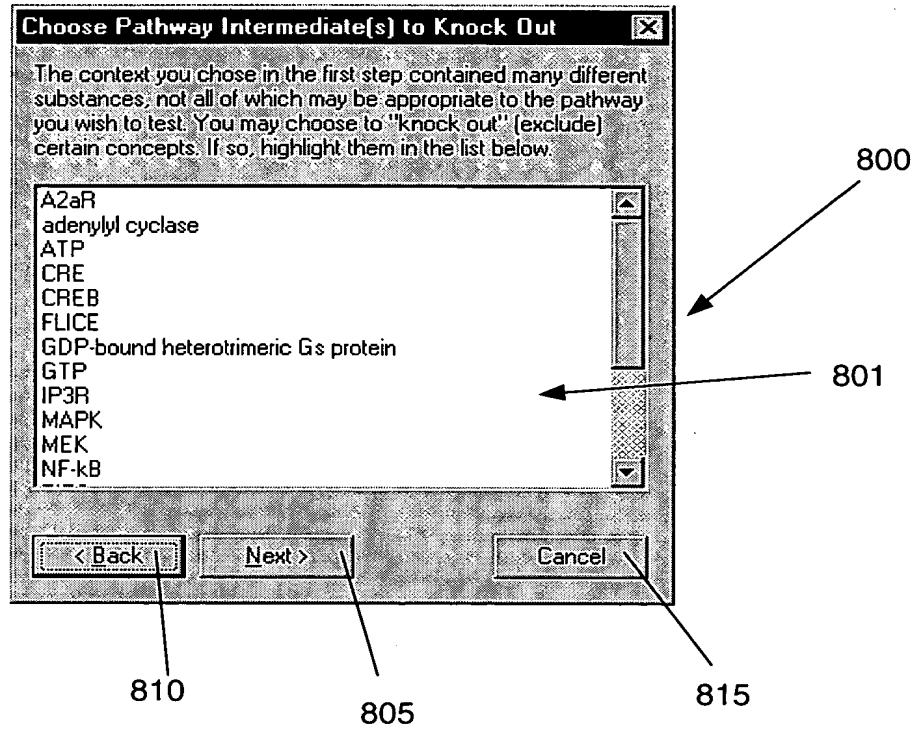


FIGURE 8D

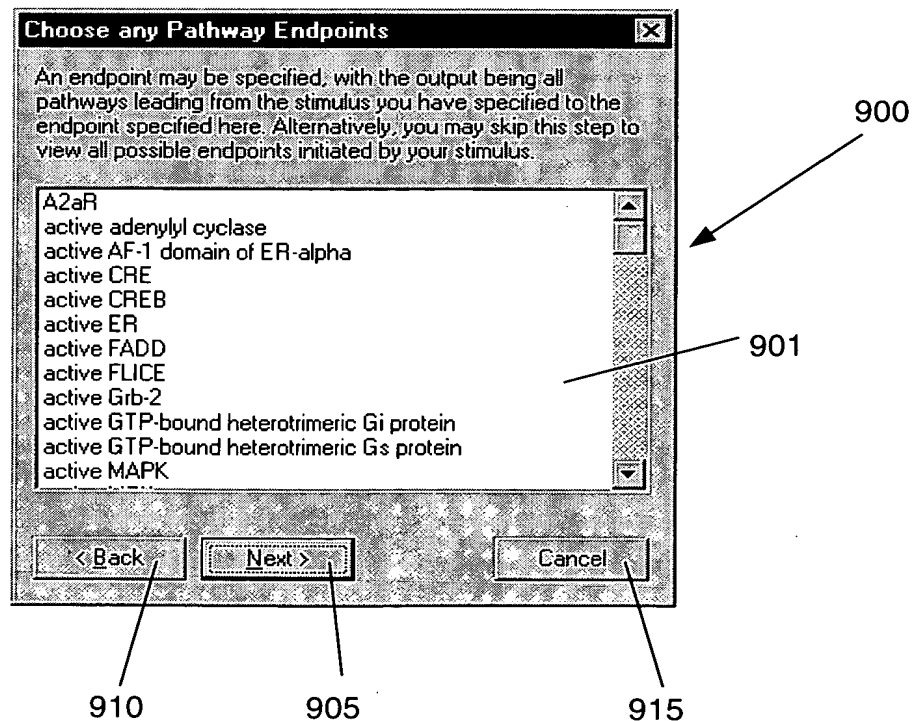


FIGURE 8E

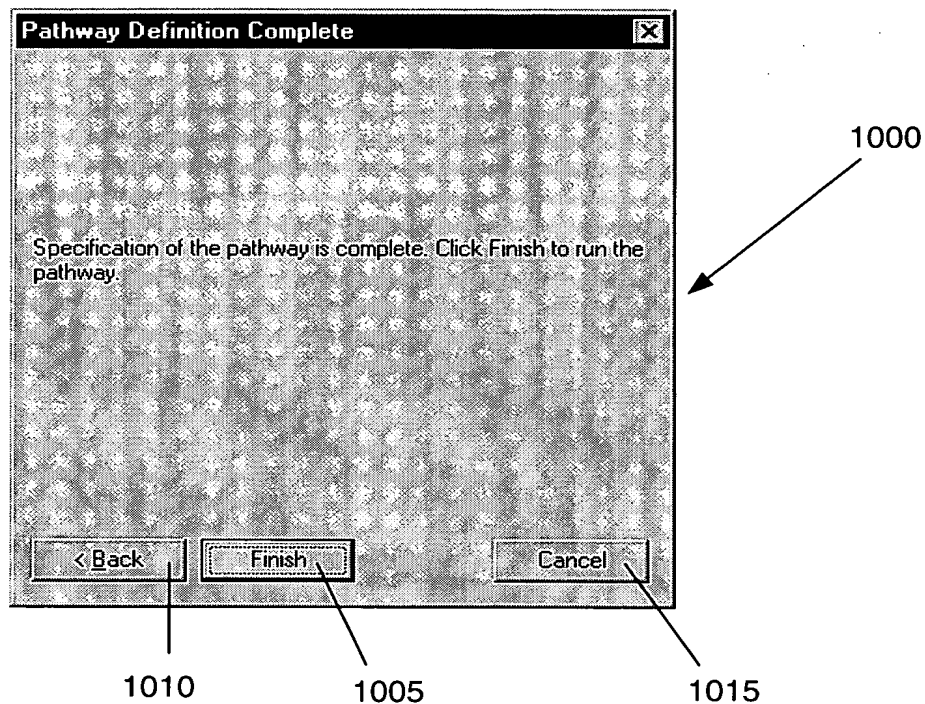


FIGURE 9

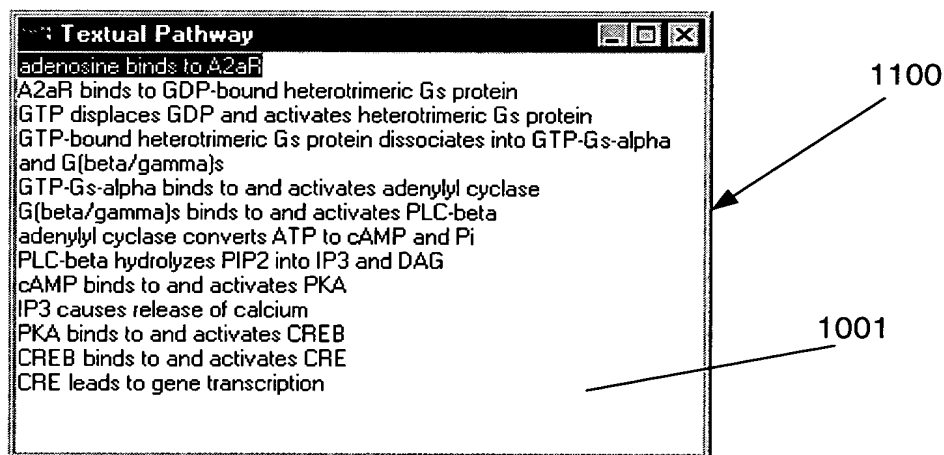


FIGURE 10A

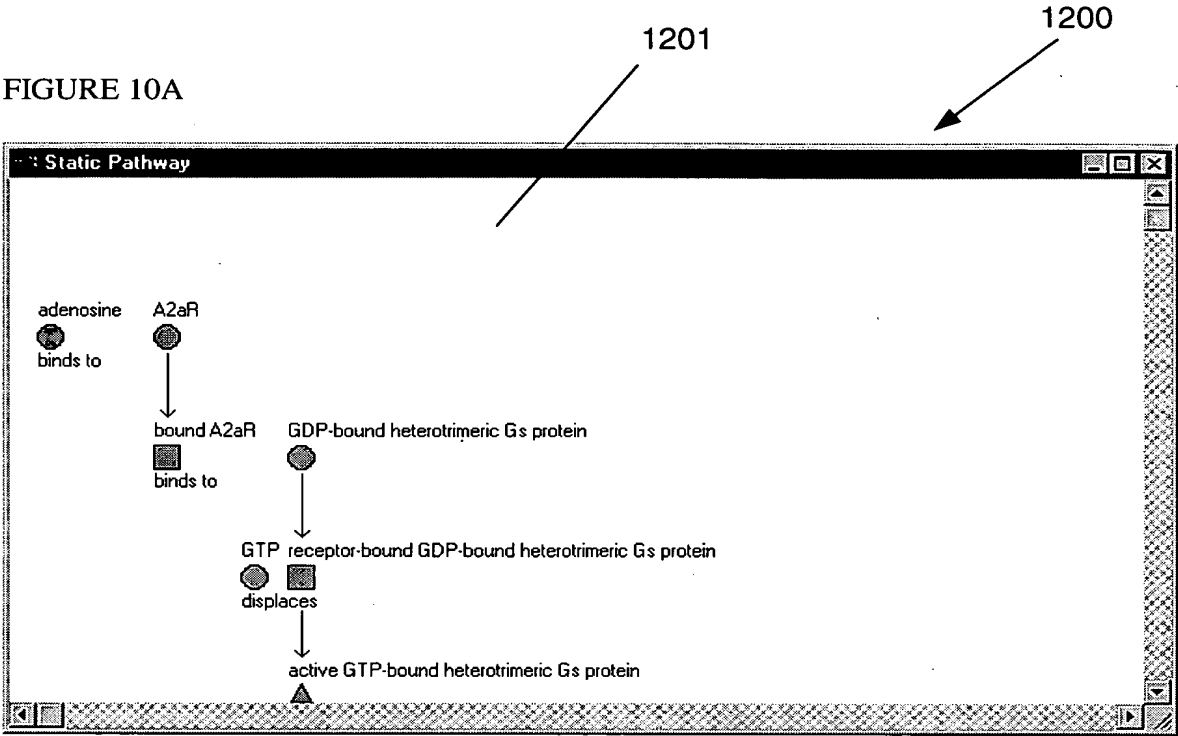


FIGURE 10B

Print

Printer:

Name: HP DeskJet 690C v11.0 Properties

Status: Ready

Type: HP DeskJet 690C Series v11.0

Where: Local

Comment: HP DeskJet 690C Series v11.0 ☐ Print to file

Print range:

☒ All

☐ Pages from: to:

☐ Selection

Copies:

Number of copies: 1

☐ Collate

OK Cancel

1305

1315

1300

5101

Fig. 13

5102

5100

5110

5104

5103

Fig. 14

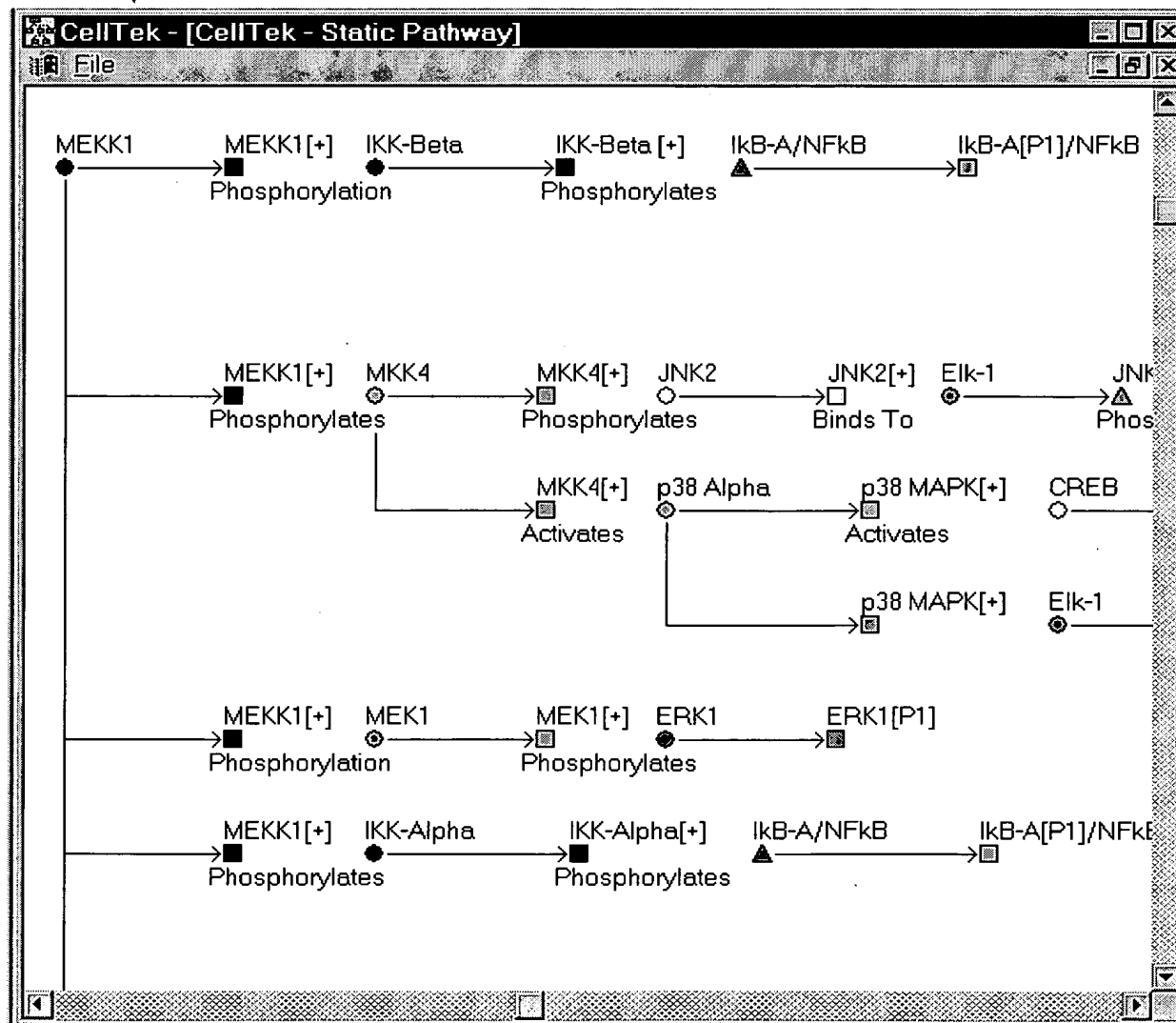


Fig. 15

5120

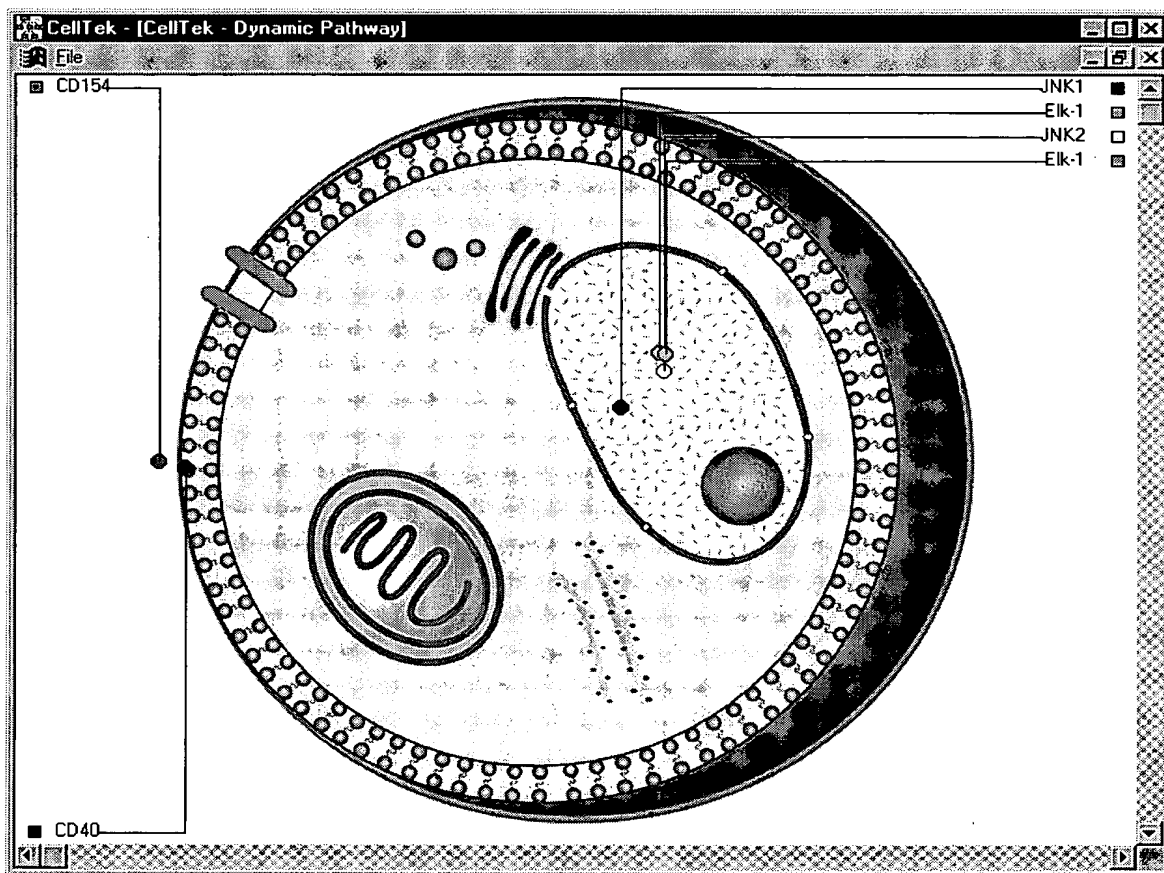


Fig. 16

5140

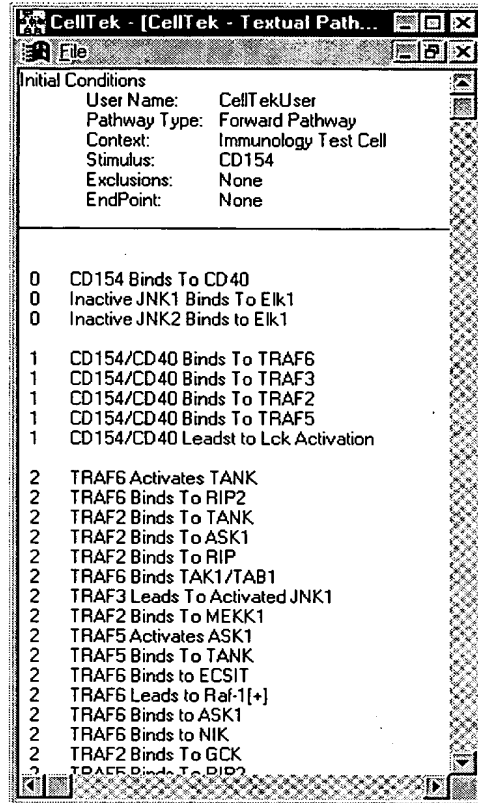
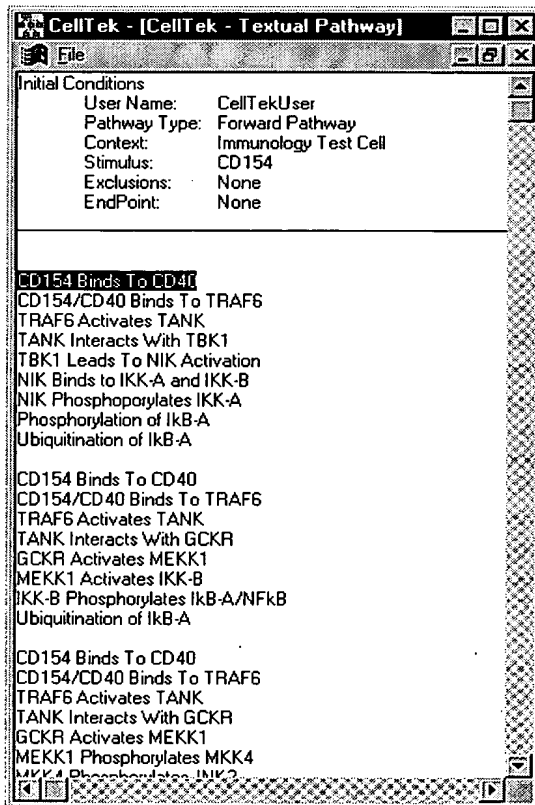


Fig. 17



5130

Fig. 18

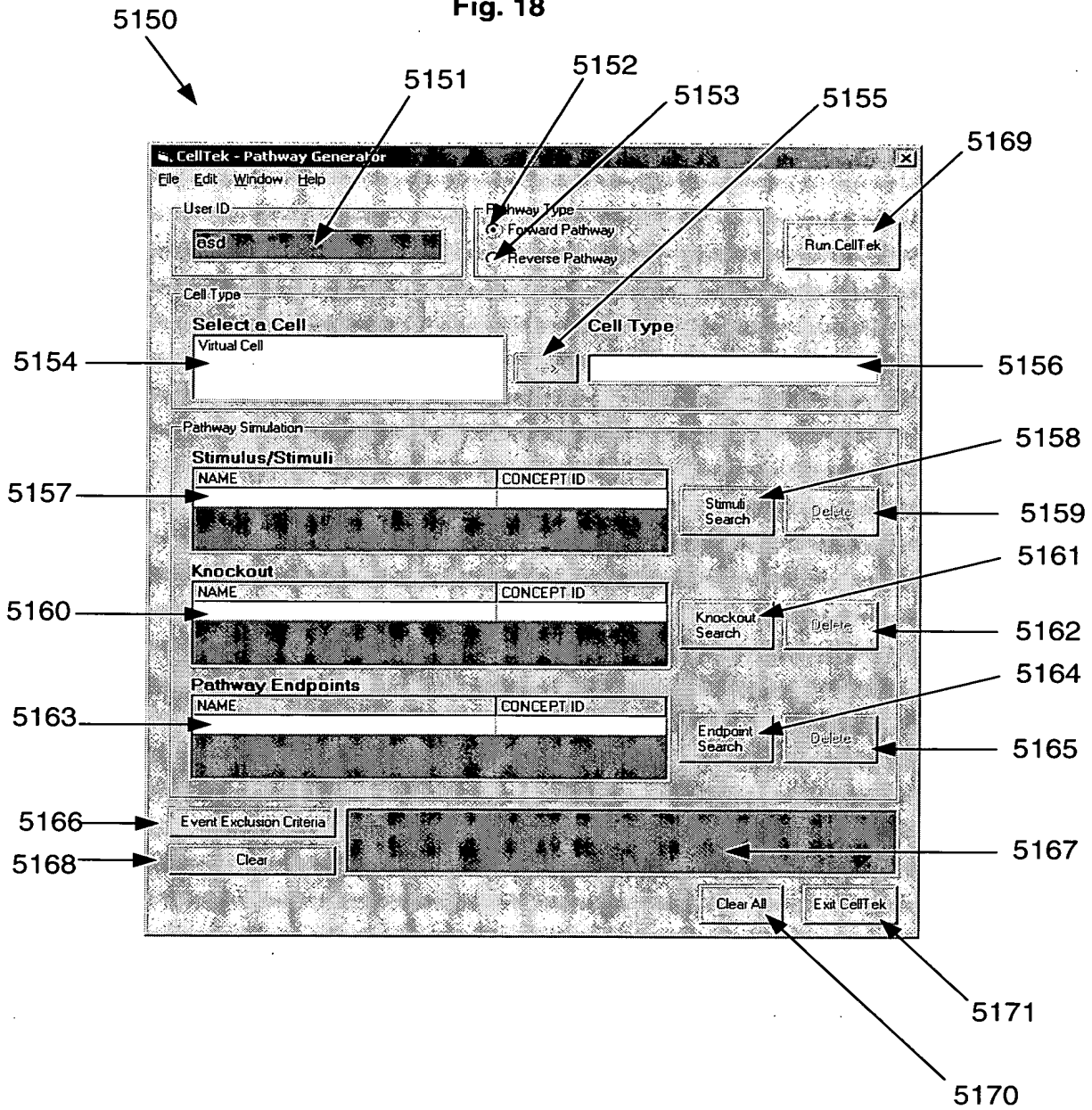


FIG. 19

Fig. 19

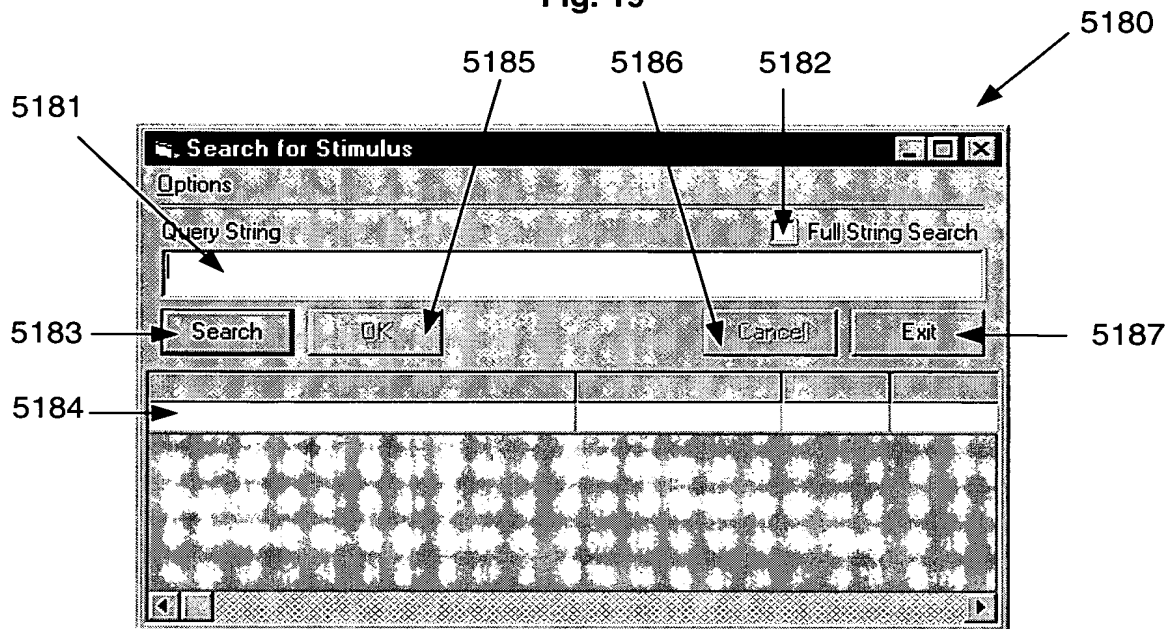


Fig. 20

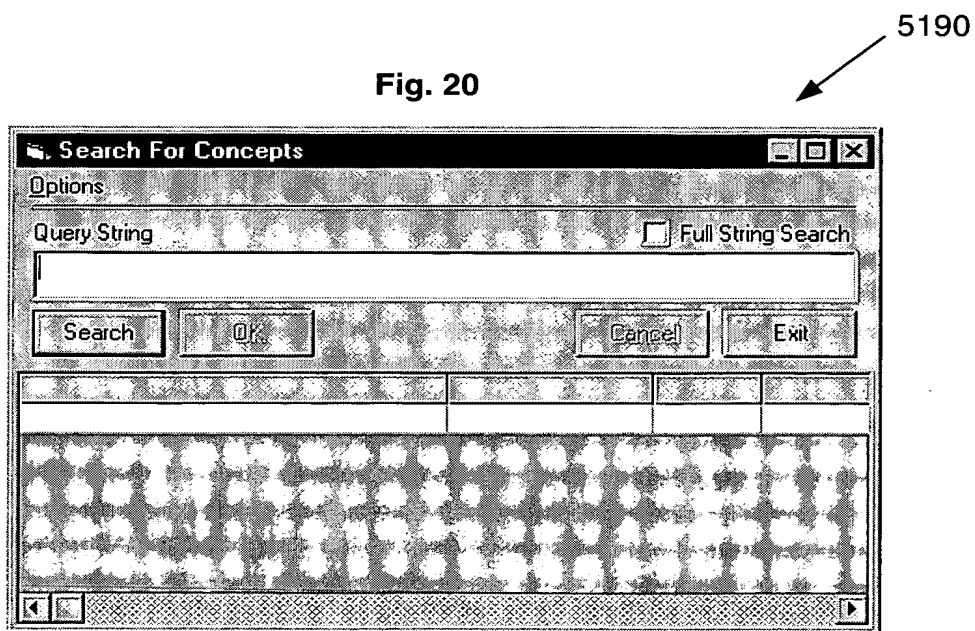


Fig. 21

5200

The dialog box titled "Search for Pathway Endpoints" contains an "Options" section with a "Query String" text field and a "Full String Search" checkbox. Below these are four buttons: "Search", "OK", "Cancel", and "Exit". At the bottom, there is a large, empty rectangular area with a grid pattern, likely for displaying search results.

Fig. 22

The dialog box titled "Event Exclusion Criteria" features a "More<<" button at the top left and "Cancel" and "OK" buttons at the top right. The main area is organized into four columns: "Fields", "Qualifier", "Values", and "Operator". Each column contains a list of four items, each with a dropdown arrow. To the right of the "Values" column, there are four "Search" buttons, one aligned with each row. Labels with arrows point to specific elements: 5210 points to the "Fields" column header, 5211 points to the "More<<" button, 5212 points to the first dropdown in the "Fields" column, 5213 points to the first dropdown in the "Qualifier" column, 5214 points to the first dropdown in the "Values" column, 5215 points to the first "Search" button, 5216 points to the first dropdown in the "Operator" column, 5217 points to the "OK" button, and 5218 points to the "Cancel" button.

Fig. 23

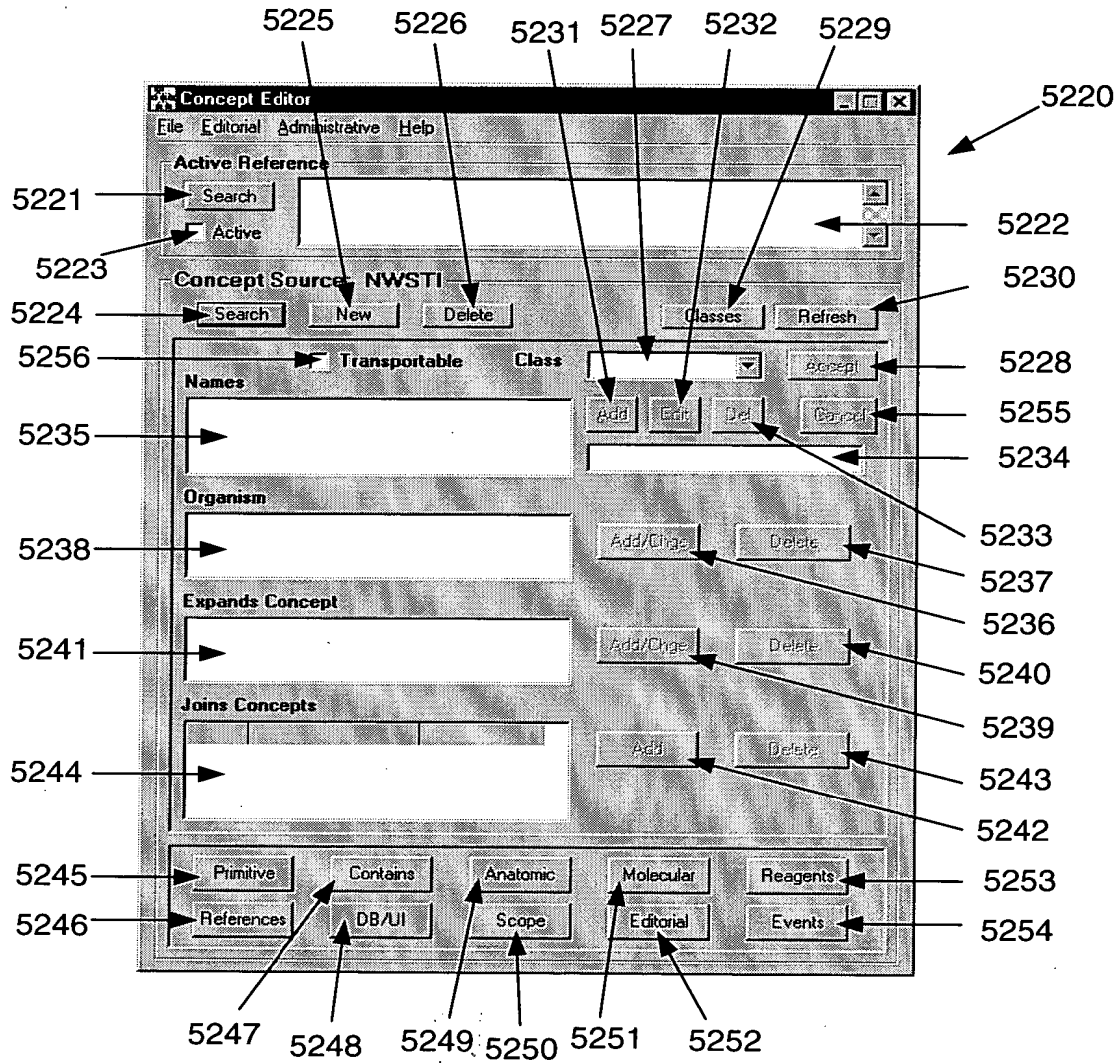


Fig. 24

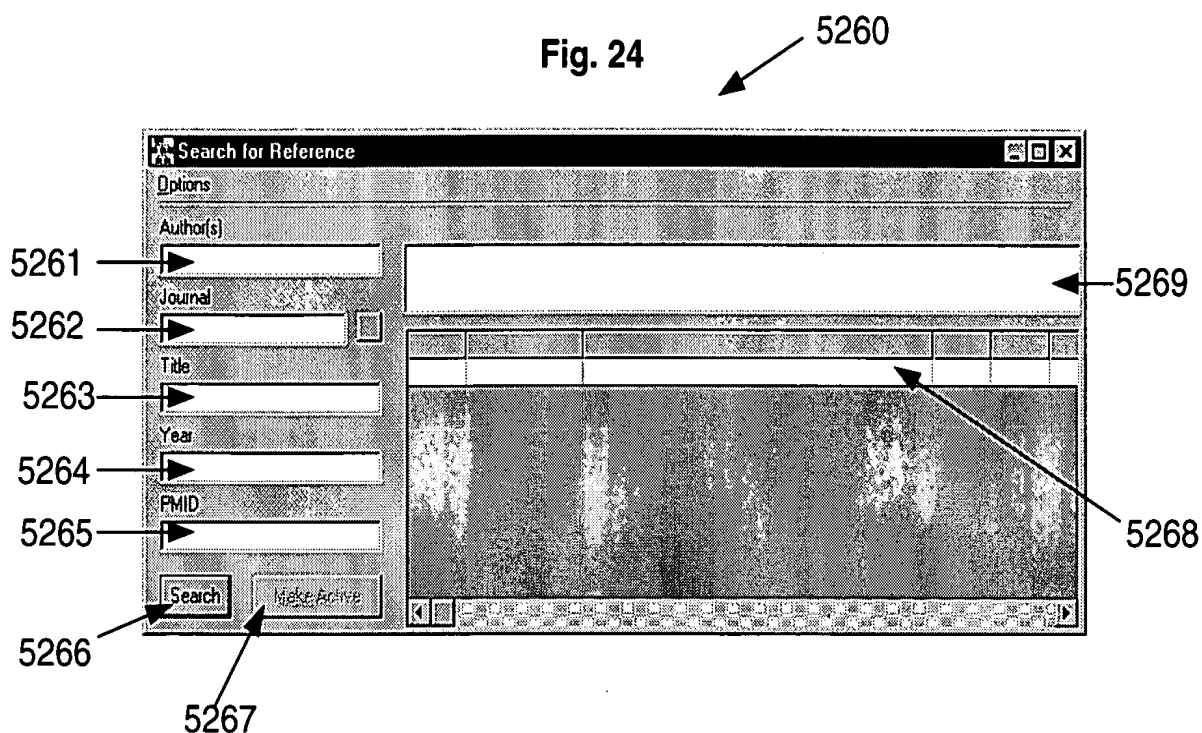


Fig. 25

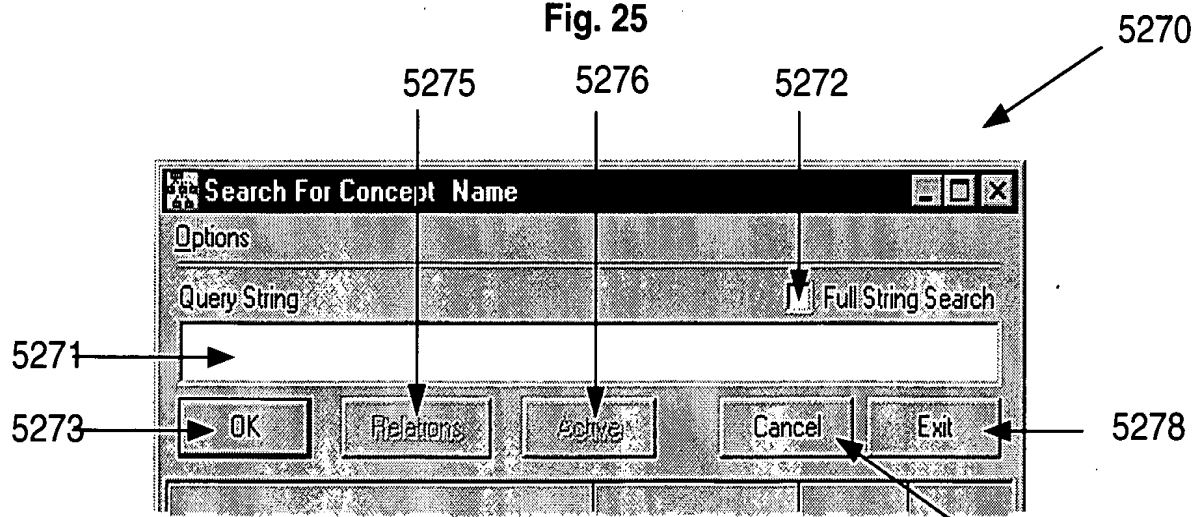


Fig. 26

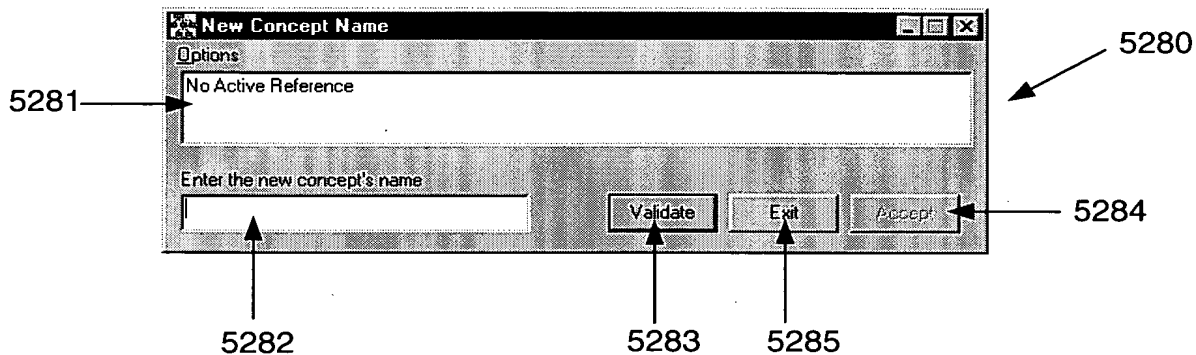


Fig. 27

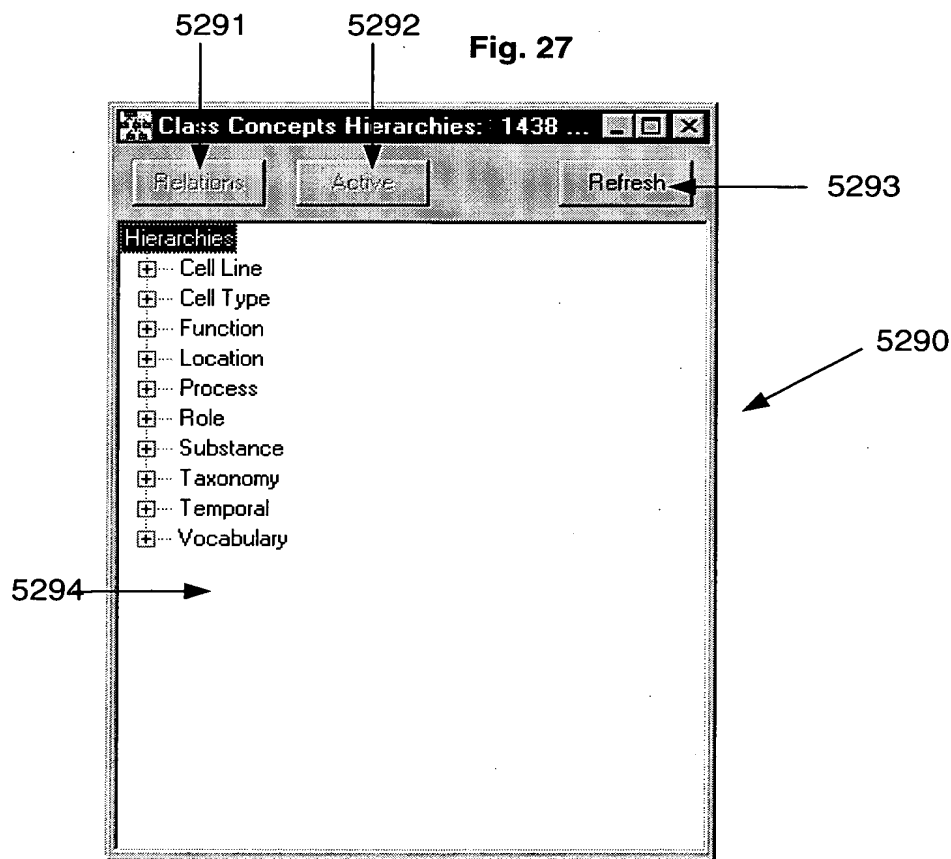


Fig. 28

Primitive Attributes: Concept "TRAF6/T6BP Complex" [X]

ATT ID	Name	Val
5	graphicshape	triangle
6	graphicsize	10
7	graphiccolor	4210688
11	stimulus	1

[Add] [Delete] [Refresh] [Exit]

5300

Fig. 29

Contains - Excludes: Concept "Leukocyte" [X]

Options

[Search] [Refresh] [Exit]

Contains Concepts

Excludes Concepts

[Add] [Delete] [Details] [Add] [Delete] [Details]

5310

Fig. 30

Query: Concept "Leukocyte"

Options

Organism

☒ Include ☐ Exclude

Add Delete

Query

Anatomic

☒ Include ☐ Exclude

Add Delete

Query

☐ AND ☒ OR

☐ Dev Stage ☒ Organ ☐ Tissue ☐ Cell Type

Class

☐ Expand

Add Delete

Query

Combinations

☐ Organism - Class ☐ Anatomy - Class

☐ Organism - Anatomy ☒ Org - Anat - Class

Query

Search Refresh

To Contents Exit

1

5320

Fig. 31

Anatomic Attributes: Concept "Phosphatidylinositol-3-OH-Kinase Family"

No Active Reference

ID	REF_ID	MOL_CELL	STAGE	ORGAN	TISSUE
387	18				

Active ID -
Reference

Developmental Stage

Organ

Tissue

Cell Type

Cell Line

Molecules per Cell

Expression Defined By

5330

FIG. 31

Fig. 32

5340

Molecular Attributes: Concept "Phosphatidylinositol-3-OH-Kinase Family"

Member Of Gene/Protein Family

Has A Prototype Homolog

Domains: Active ID - 56

☒ Domains ☐ Motifs ☐ Post-Translational Modifications ☐ Activated By ☐ Inhibited By

ID	DOMAIN NAME
56	Kinase Domain
57	PIK Domain

References

ID	JOURNAL	TITLE	Year	Vol	Iss
46	Annu Rev Bi	Phosphoinositide kinases.	1998	67	

Fig. 33

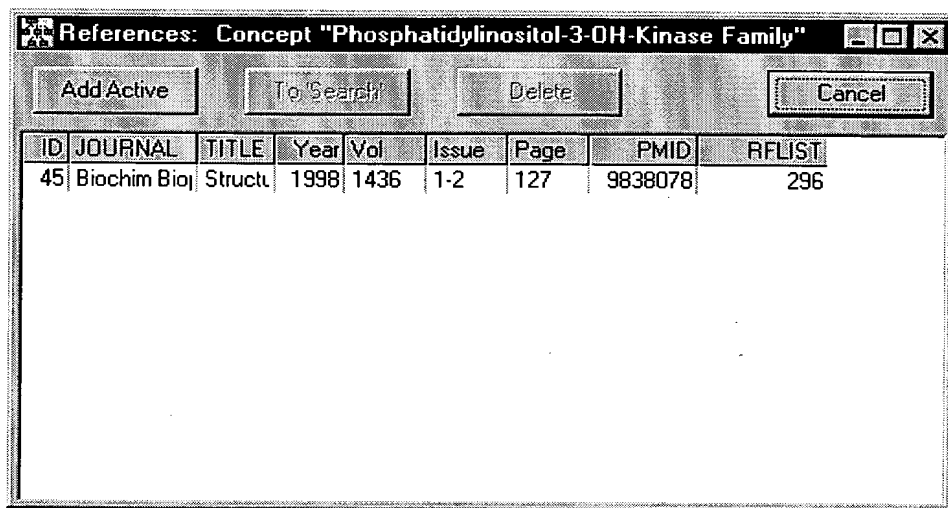
5350

Reagents: Concept "Phosphatidylinositol-3-OH-Kinase Family"

No Active Reference

Fig. 34

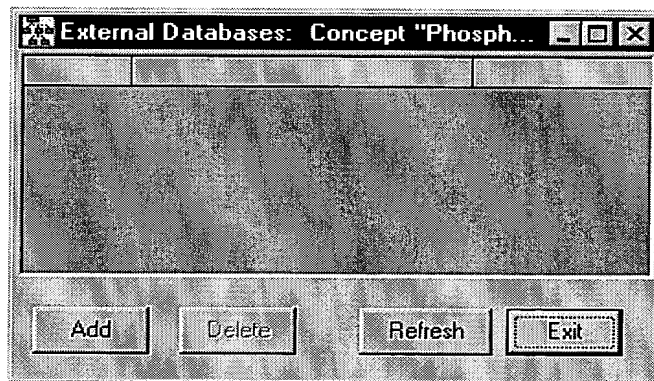
5360



A screenshot of a software window titled "References: Concept 'Phosphatidylinositol-3-OH-Kinase Family'". The window has a menu bar with "Add Active", "To Search", "Delete", and "Cancel". Below the menu bar is a table with the following data:

ID	JOURNAL	TITLE	Year	Vol	Issue	Page	PMID	RFLIST
45	Biochim Bio	Structu	1998	1436	1-2	127	9838078	296

Fig. 35



5370

Fig. 36

5380

A screenshot of a software window titled "Scope Notes: Concept 'Phosphatidylinositol-3-O...". The window contains a large text area at the top, a table below it, and a row of five buttons at the bottom. The table has five columns: "COMMENT_ID", "COMMENT", "ID", "COMMENTTYPE_ID", and "COMMENTREFT". The table body is currently empty. The buttons are labeled "Add", "Edit", "Delete", "Cancel", and "Exit".

COMMENT_ID	COMMENT	ID	COMMENTTYPE_ID	COMMENTREFT
------------	---------	----	----------------	-------------

Fig. 37

5390

A screenshot of a software window titled "Editorial Comments: Concept 'Phosphatidylinosit...". The window contains a large text area at the top, a table below it, and a row of five buttons at the bottom. The table has five columns: "COMMENT_ID", "COMMENT", "ID", "COMMENTTYPE_ID", and "COMMENTREFT". The table body is currently empty. The buttons are labeled "Add", "Edit", "Delete", "Cancel", and "Exit".

COMMENT_ID	COMMENT	ID	COMMENTTYPE_ID	COMMENTREFT
------------	---------	----	----------------	-------------

Fig. 38

Event Editor: Concept "CD154, Protein"

Administrative

Active Reference
No Active Reference

Event

ID	NAME
42	CD154 Binds To CD40
315	Test Event

Buttons: Refresh, Exit, Constants, Experimental, Attributes, Containers, References, DB / UI, Editorial, Scope, New Event, Delete, Search Event.

Names
Test Event Event Desc

Buttons: Add, Delete, Edit, Cancel

Requires

Produces

Controversy Flag ☐ **Search Concept**

Inhibited By

Cellular Location

Transportable Cellular Location

Buttons: Add, Delete

5405

5400

Fig. 39

Search For Event Name

Options

Query String ☐ Full String Search

Buttons: OK, Active, Cancel, Exit

Table:

Buttons: < >

Fig. 40

Biochemical Constants: Event "Test Event"

Active Reference
No Active Reference

Vmax

Km

Keq (Equilibrium Constant)

Kd (Dissociation Constant)

k+1 (Forward Rate)

k-1 (Reverse Rate)

☐ Kinetic Display

☐ Completed Constants

5410

5420

Fig. 41

Event Attributes: Event "Test Event"

Event Name
Test Event

Has Attributes

ID	Name	Val

Applies Process

ID	FROM	APPLIES	TO

Tests Attributes

ID	ATT_1	CON_1	COMPARE	ATT_2	CON_2

Modifies Attributes

ID	CONCEPT	ATTRIBUTE	OPERATOR	VALUE

Fig. 42

5430

Experimental Conditions: Event "Test Event"

Active Reference
No Active Reference

Refresh
Exit

Experimental Conditions

EXP_ID	REF_ID	ASSAY_ID	ASSAY_PRI	BUFFER	PERATURE	RATION_ID

New
Delete

Reference

Assay Name
Add/Change
Delete

Sample Preparation Type
Add/Change
Delete

Assay Description: Processing/Procedure
Accept
Delete

Assay Buffer
Accept
Delete

Temperature C
Accept
Delete

Fig. 43

5440

Excluded: Event "Test Event"

Search
Refresh
Exit

Excluded From

Add
Delete
Details